

J-CLAISS

PROFESSIONAL WATER SYSTEMS EQUIPMENT



5128 Flag Drive Gallows Bay
Christiansted St. Croix 00824
340.778.3156



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Model Number Nomenclature

Pump & Motor Brand/Series Codes:

JS = J-Class SandHandler (Tri-Seal/6" High Capacity)
JV = J-Class V-Series
JE = J-Class Environmental

Jet Brand/Series Codes:

J = J-Class
C = Convertible
CY = Cyclone
RM = RM2 Series
RP = RP2 Series
RPH = RP2H Series High Head
SRP = SRP3 Series
SRPH = SRP3 High Head
VJ = VersaJet
TB = Turf Boss
BT = BT4

Horsepower Codes:

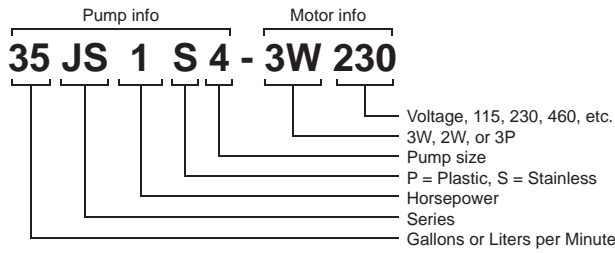
hp	1/3	1/2	3/4	1	1.5	2	3	5	7.5	10	15	20
Code	03	05	07	1	15	2	3	5	7	10	15	20
hp	25	30	35	40	50	60	75	100	125	150	175	200
Code	25	30	35	40	50	60	75	100	125	150	175	200

Material Codes:

CI = Cast Iron
P = Plastic
S = Stainless Steel

Model Number Nomenclature

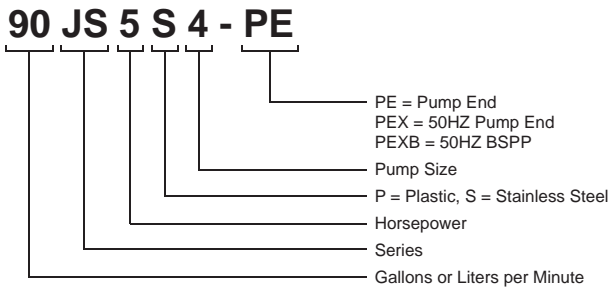
4" 5-25 gpm Submersible Pump/Motors:



Examples:

18JS07P4-2W230 = 18 gpm, J-Class SandHandler, Plastic / 3/4 hp, 230 V, 2-wire motor
 22JH2S4-3W230 = 22 gpm, J-Class Hurricane, Stainless / 2 hp, 230 V, 3-wire motor

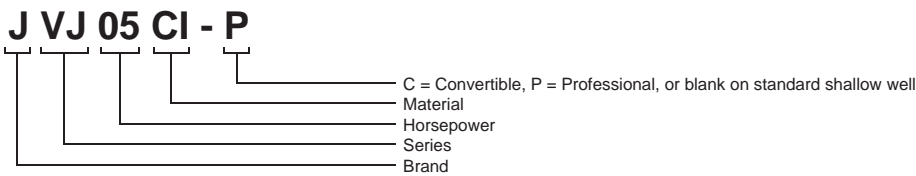
Pump End:



Examples:

45JS3S4-PE = 45 gpm, J-Class SandHandler, 3 hp, Stainless Steel, Pump End
 25JE1P4-PEXB = 25 lpm, J-Class E-Series, 1 hp, Plastic, 50 Hz Pump End BSPP Threads

Centrifugal Pumps:



Examples:

JSRPH05CI-C = J-Class, High Head Jet, 1/2 hp, Cast Iron, Shallow Well
 CY07P = J-Class, Shallow Well Jet, 3/4 hp, Plastic
 JC03CI-C = J-Class, C Series, 1/3 hp, Cast Iron, Convertible

Submersible Pumps

4" TRI-SEAL Pumps

Features & Ordering Information



J-CLASS SandHandler

4" SandHandler TRI-SEAL

The Standard J-Class SandHandler 4" submersible pump features the new TRI-SEAL floating stage system. This new stage system further improves efficiency and protects against wear when pumping abrasives (sand). All J-Class SandHandler pumps are unconditionally guaranteed against sand locking in abrasive well conditions for one full year. For details on how to become a registered dealer and receive a 5-year warranty, contact your local distributor.

Features:

- 300 series stainless steel hub floats with the impeller maintaining a positive seal
- Phenolic washer provides down-thrust protection
- Celcon® impeller provides high efficiency performance and abrasion resistance
- Noryl® diffuser and disc - proven abrasion resistant material
- Floating stage design allows impeller to float independently
- Removable, spring-loaded check valve
- Maximum water temperature: 120 °F/49 °C
- Ceramic shaft sleeve and rubber discharge bearing protect shaft and eliminate sand wear
- Powered by Franklin Electric corrosion resistant 4" submersible motors

Celcon® is a Registered Trademark of the Celanese Corp.
Noryl® is a Registered Trademark of G.E.

Patented impeller hub seal system seals radially and axially to prevent fluid recirculation, providing high performance in the harshest conditions.

CSA CERTIFIED
PUMP END ONLY



Drinking Water
NSF/ANSI 61

TRI-SEAL™ Floating Stage System

U.S. Patent No. 7,290,984

Submersible Pumps

4" TRI-SEAL Pumps Features & Ordering Information

Stainless Steel Ordering Information:

(See pgs. 2-3 for model number explanation)

GPM	HP	STG	VOLTS	2-WIRE		3-WIRE	
				MODEL NO.	ORDER NO.	MODEL NO.	ORDER NO.
5	1/2	8	115	5JS05S4-2W115	93760505	5JS05S4-3W115	93760530
	1/2	8	230	5JS05S4-2W230	93760510	5JS05S4-3W230	93760535
	3/4	12	230	5JS07S4-2W230	93760515	5JS07S4-3W230	93760540
	1	15	230	5JS1S4-2W230	93760520	5JS1S4-3W230	93760545
	1.5	21	230	5JS15S4-2W230	93760525	5JS15S4-3W230	93760550
7	1/2	7	115	7JS05S4-2W115	93760705	7JS05S4-3W115	93760730
	1/2	7	230	7JS05S4-2W230	93760710	7JS05S4-3W230	93760735
	3/4	10	230	7JS07S4-2W230	93760715	7JS07S4-3W230	93760740
	1	13	230	7JS1S4-2W230	93760720	7JS1S4-3W230	93760745
	1.5	18	230	7JS15S4-2W230	93760725	7JS15S4-3W230	93760750
10	1/2	6	115	10JS05S4-2W115	93761005	10JS05S4-3W115	93761005
	1/2	6	230	10JS05S4-2W230	93761010	10JS05S4-3W230	93761010
	3/4	8	230	10JS07S4-2W230	93761015	10JS07S4-3W230	93761015
	1	11	230	10JS1S4-2W230	93761020	10JS1S4-3W230	93761020
	1.5	15	230	10JS15S4-2W230	93761025	10JS15S4-3W230	93761025
15	1/2	4	115	15JS05S4-2W115	93761505	15JS05S4-3W115	93761530
	1/2	4	230	15JS05S4-2W230	93761510	15JS05S4-3W230	93761535
	3/4	6	230	15JS07S4-2W230	93761515	15JS07S4-3W230	93761540
	1	8	230	15JS1S4-2W230	93761520	15JS1S4-3W230	93761545
	1.5	11	230	15JS15S4-2W230	93761525	15JS15S4-3W230	93761550
20	3/4	5	230	20JS07S4-2W230	93762015	20JS07S4-3W230	93762040
	1	7	230	20JS1S4-2W230	93762020	20JS1S4-3W230	93762045
	1.5	10	230	20JS15S4-2W230	93762025	20JS15S4-3W230	93762050
25	1	6	230	25JS1S4-2W230	93762520	25JS1S4-3W230	93762545
	1.5	8	230	25JS15S4-2W230	93762525	25JS15S4-3W230	93762550

Note: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

Submersible Pumps

4" TRI-SEAL Pumps

Features & Ordering Information

Plastic Ordering Information:

(See pgs. 2-3 for model number explanation)

GPM	HP	STG	VOLTS	2-WIRE		3-WIRE	
				MODEL NO.	ORDER NO.	MODEL NO.	ORDER NO.
5	1/2	8	115	5JS05P4-2W115	93740505	5JS05P4-3W115	93740530
	1/2	8	230	5JS05P4-2W230	93740510	5JS05P4-3W230	93740535
	3/4	12	230	5JS07P4-2W230	93740515	5JS07P4-3W230	93740540
	1	15	230	5JS1P4-2W230	93740520	5JS1P4-3W230	93740545
	1.5	21	230	5JS15P4-2W230	93740525	5JS15P4-3W230	93740550
7	1/2	7	115	7JS05P4-2W115	93740705	7JS05P4-3W115	93740730
	1/2	7	230	7JS05P4-2W230	93740710	7JS05P4-3W230	93740735
	3/4	10	230	7JS07P4-2W230	93740715	7JS07P4-3W230	93740740
	1	13	230	7JS1P4-2W230	93740720	7JS1P4-3W230	93740745
	1.5	18	230	7JS15P4-2W230	93740725	7JS15P4-3W230	93740750
10	1/2	6	115	10JS05P4-2W115	93741005	10JS05P4-3W115	93741030
	1/2	6	230	10JS05P4-2W230	93741010	10JS05P4-3W230	93741035
	3/4	8	230	10JS07P4-2W230	93741015	10JS07P4-3W230	93741040
	1	11	230	10JS1P4-2W230	93741020	10JS1P4-3W230	93741045
	1.5	15	230	10JS15P4-2W230	93741025	10JS15P4-3W230	93741050
15	1/2	4	115	15JS05P4-2W115	93741505	15JS05P4-3W115	93741530
	1/2	4	230	15JS05P4-2W230	93741510	15JS05P4-3W230	93741535
	3/4	6	230	15JS07P4-2W230	93741515	15JS07P4-3W230	93741540
	1	8	230	15JS1P4-2W230	93741520	15JS1P4-3W230	93741545
	1.5	11	230	15JS15P4-2W230	93741525	15JS15P4-3W230	93741550
20	3/4	5	230	20JS07P4-2W230	93742015	20JS07P4-3W230	93742040
	1	7	230	20JS1P4-2W230	93742020	20JS1P4-3W230	93742045
	1.5	10	230	20JS15P4-2W230	93742025	20JS15P4-3W230	93742050
25	1	6	230	25JS1P4-2W230	93742520	25JS1P4-3W230	93742545
	1.5	8	230	25JS15P4-2W230	93742525	25JS15P4-3W230	93742550

Note: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

Submersible Pumps

4" TRI-SEAL Pumps Features & Ordering Information

Pump End Assemblies Only Ordering Information: (See pgs. 2-3 for model number explanation)

PLASTIC				
GPM	HP	STG	MODEL NO.	ORDER NO.
5	1/2	8	5JS05P4-PE	93750505
	3/4	12	5JS07P4-PE	93750510
	1	15	5JS1P4-PE	93750515
	1.5	21	5JS15P4-PE	93750520
7	1/2	7	7JS05P4-PE	93750705
	3/4	10	7JS07P4-PE	93750710
	1	13	7JS1P4-PE	93750715
	1.5	18	7JS15P4-PE	93750720
10	1/2	6	10JS05P4-PE	93751005
	3/4	8	10JS07P4-PE	93751010
	1	11	10JS1P4-PE	93751015
	1.5	15	10JS15P4-PE	93751020
15	1/2	4	15JS05P4-PE	93751505
	3/4	6	15JS07P4-PE	93751510
	1	8	15JS1P4-PE	93751515
	1.5	11	15JS15P4-PE	93751520
20	3/4	5	20JS07P4-PE	93752010
	1	7	20JS1P4-PE	93752015
	1.5	10	20JS15P4-PE	93752020
25	1	6	25JS1P4-PE	93752515
	1.5	8	25JS15P4-PE	93752520

Note: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

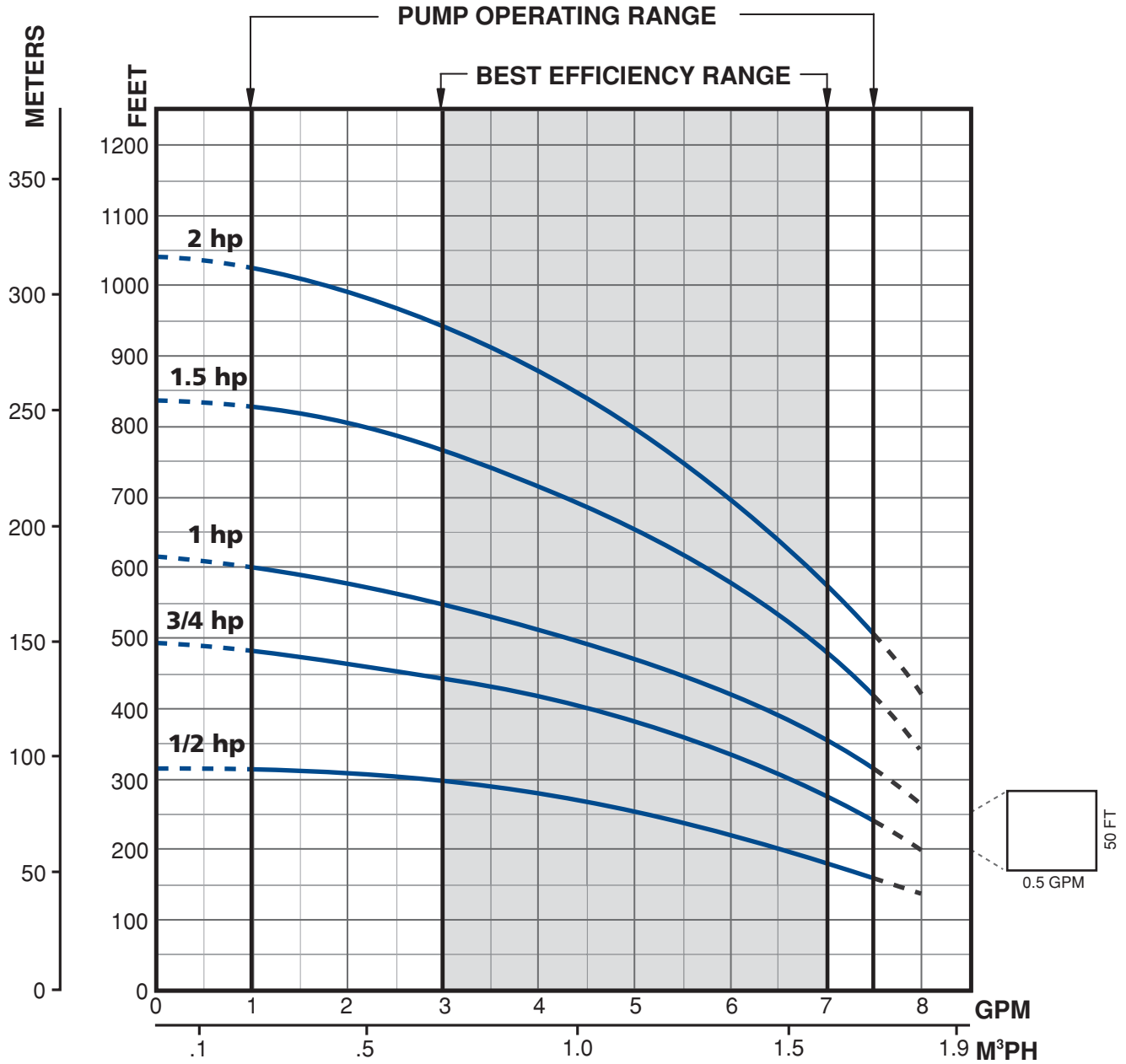
STAINLESS STEEL				
GPM	HP	STG	MODEL NO.	ORDER NO.
5	1/2	8	5JS05S4-PE	93770505
	3/4	12	5JS07S4-PE	93770510
	1	15	5JS1S4-PE	93770510
	1.5	21	5JS15S4-PE	93770520
	2	26	5JS2S4-PE	93770525
7	1/2	7	7JS05S4-PE	93770705
	3/4	10	7JS07S4-PE	93770710
	1	13	7JS1S4-PE	93770710
	1.5	18	7JS15S4-PE	93770720
	2	24	7JS2S4-PE	93770725
10	3	32	7JS3S4-PE	93770730
	1/2	6	10JS05S4-PE	93771005
	3/4	8	10JS07S4-PE	93771010
	1	11	10JS1S4-PE	93771010
	1.5	15	10JS15S4-PE	93771020
15	2	18	10JS2S4-PE	93771025
	3	24	10JS3S4-PE	93771030
	5	39	10JS5S4-PE	93771035
	1/2	4	15JS05S4-PE	93771505
	3/4	6	15JS07S4-PE	93771510
20	1	8	15JS1S4-PE	93771515
	1.5	11	15JS15S4-PE	93771520
	2	14	15JS2S4-PE	93771525
	3	19	15JS3S4-PE	93771530
	5	31	15JS5S4-PE	93771535
25	3/4	5	20JS07S4-PE	93772010
	1	7	20JS1S4-PE	93772015
	1.5	10	20JS15S4-PE	93772020
	2	12	20JS2S4-PE	93772025
	3	16	20JS3S4-PE	93772030
	5	26	20JS5S4-PE	93772035
	7.5	39	20JS7S4-PE	93772040
10	52	20JS10S4-PE	93772040	
25	1	6	25JS1S4-PE	93772515
	1.5	8	25JS15S4-PE	93772520
	2	10	25JS2S4-PE	93772525
	3	14	25JS3S4-PE	93772530
	5	23	25JS5S4-PE	93772535
	7.5	35	25JS7S4-PE	93772540
10	44	25JS10S4-PE	93772545	

Note: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

Submersible Pumps

4" TRI-SEAL Pumps

5 gpm Performance



Submersible Pumps

4" TRI-SEAL Pumps 5 gpm Performance

Capacities in U.S. Gallons per Minute:

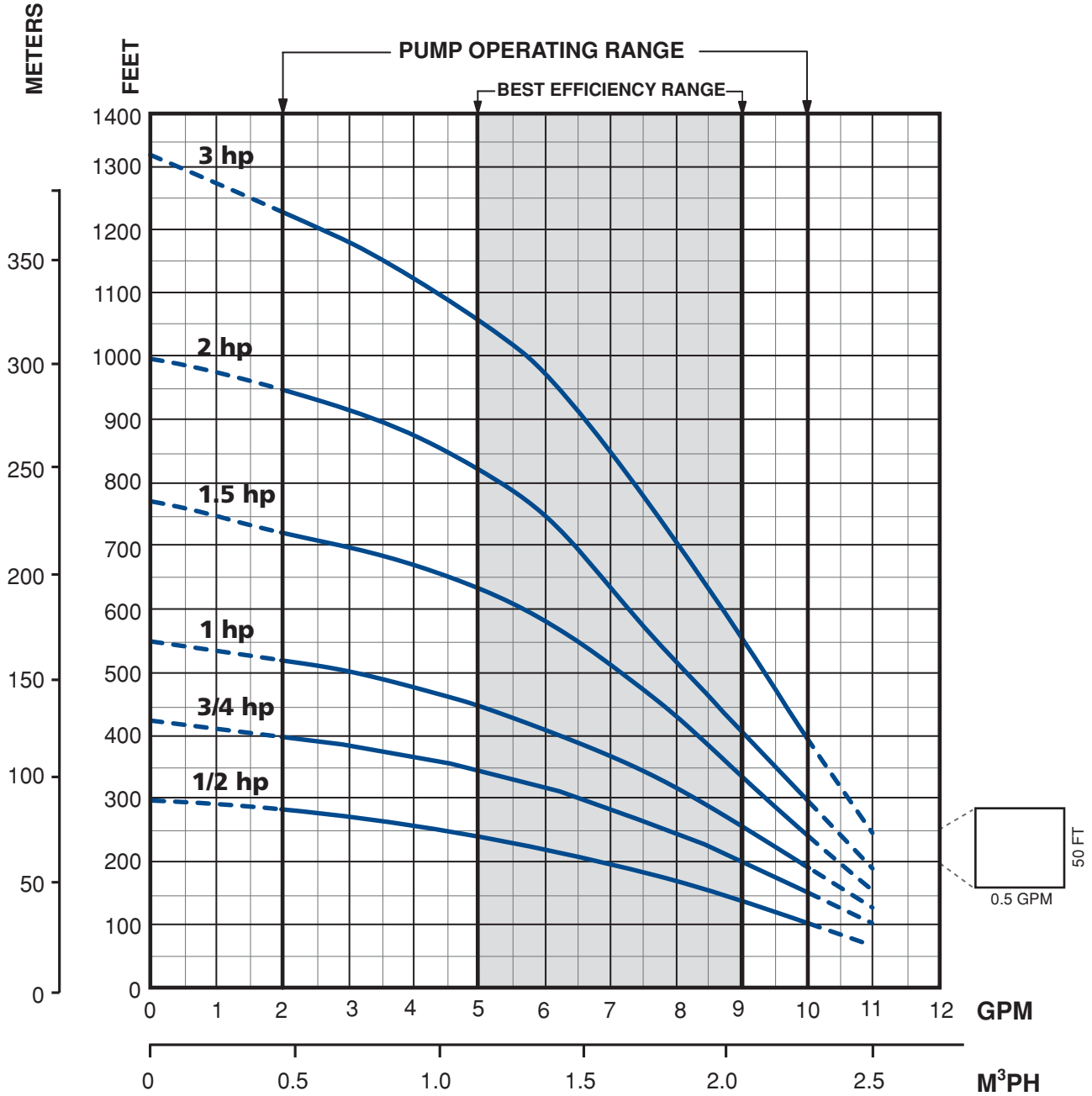
HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																							
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																							
		20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	440	480	500	600	700	800	900	1000	
1/2	0							7	7	6	6	5	4												Shut-off 315 ft
	20					8	7	6	6	5	5	3	2												
	30				7	7	6	6	5	5	4	2													
	40			7	7	6	6	5	5	4	3														
	50		7	6	6	6	5	5	4	2															
	60	7	7	6	6	5	4	4	2																
	80	6	6	5	4	3																			
	Shut-off PSI	127	119	110	101	93	84	75	67	58	49	32	23												
3/4	0										7	7	7	6	5	4	3								Shut-off 495 ft
	20								7	7	7	6	6	5	4	3									
	30							7	7	7	6	6	6	5	3										
	40						7	7	7	6	6	6	5	4	2										
	50					7	7	7	6	6	6	5	5	4											
	60				7	7	7	6	6	6	5	5	4	3											
	80		7	7	7	6	6	6	5	5	4	3	3												
	Shut-off PSI	205	196	188	179	171	162	153	145	136	127	110	101	84	58	41	23								
1	0												8	7	6	6	5	4	4						Shut-off 615 ft
	20											7	7	7	6	5	4	3							
	30										7	7	7	6	5	5	3	2							
	40									7	7	7	7	6	5	4	3								
	50								7	7	7	7	6	6	4	3									
	60						7	7	7	7	6	6	5	4											
	80					7	7	7	6	6	5	5	4												
	Shut-off PSI	257	248	240	231	222	214	205	197	188	179	162	153	136	110	93	75	58	49						
1.5	0														7	7	7	6	5	4	2				Shut-off 835 ft
	20													7	7	7	6	6	6	5	3				
	30													7	7	7	6	6	6	4	3				
	40													7	7	7	6	6	6	5	4	2			
	50													7	7	7	6	6	5	5	3				
	60													7	7	7	6	6	5	5	3				
	80									7	7	7	6	6	5	5	4	4	2						
	Shut-off PSI	352	344	335	326	318	309	300	292	283	274	257	249	231	205	188	171	153	145	101	58	15			
2	0															7	7	7	6	5	4	3			Shut-off 1040 ft
	20															7	7	7	6	5	4	2			
	30															7	7	7	6	6	5	3			
	40															7	7	7	6	6	5	3			
	50															7	7	7	6	6	5	4	3		
	60															7	7	7	6	6	6	5	4	3	
	80												7	7	7	6	6	6	6	5	3				
	Shut-off PSI	441	432	424	415	406	398	389	381	372	363	346	337	320	294	277	259	242	233	190	147	104	60		

- Notes:** 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

4" TRI-SEAL Pumps

7 gpm Performance



Submersible Pumps

4" TRI-SEAL Pumps 7 gpm Performance

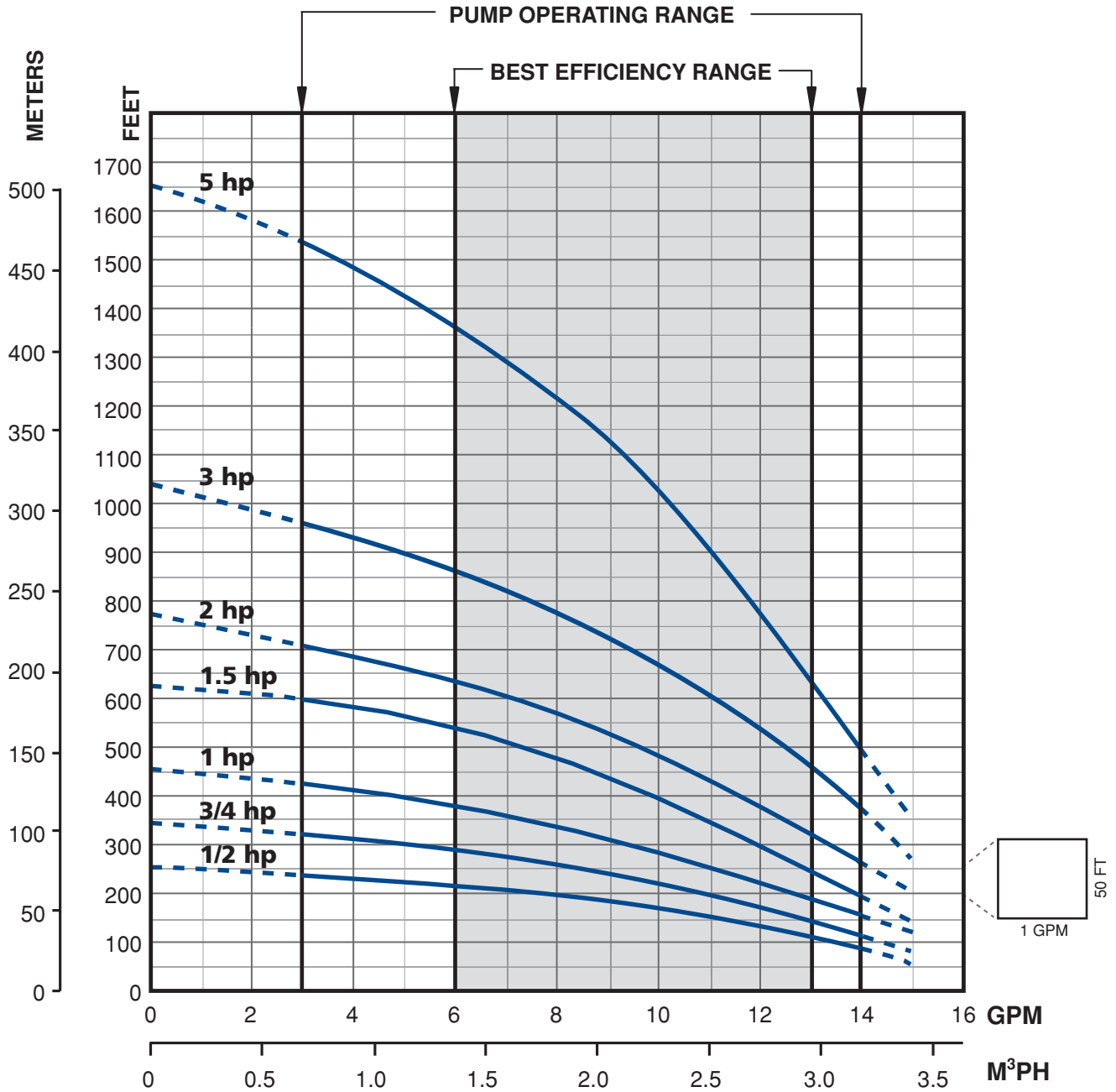
Capacities in U.S. Gallons per Minute:

HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																								
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																								
		20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	440	480	500	600	700	800	900	1000		
1/2	0				10	10	9	9	8	7	6	5	4													Shut-off 300 ft
	20		10	9	9	8	8	7	6	5	4															
	30	10	9	9	8	7	7	6	5	4	3															
	40	9	9	8	8	7	6	5	4	3																
	50	9	8	7	7	6	5	4	3																	
	60	8	7	6	6	5	4	3																		
	80	6	5	4	3																					
Shut-off PSI		121	112	103	95	86	77	69	60	52	43	26	17													
3/4	0					10	10	9	9	9	8	7	6	4											Shut-off 422 ft	
	20			10	10	10	9	9	8	8	7	6	6	4												
	30		10	10	10	9	9	8	8	7	7	6	5	3												
	40	10	10	10	9	9	8	8	7	7	6	5	4													
	50	10	9	9	9	8	8	7	7	6	6	4	3													
	60	9	9	9	8	8	7	7	6	6	5	3														
	80	8	8	8	7	6	6	5	5	4	3															
Shut-off PSI		174	165	156	148	139	130	122	113	104	96	78	70	52	26											
1	0						10	10	10	9	9	8	8	7	6	5	3	3							Shut-off 544 ft	
	20					10	10	10	9	9	9	8	8	7	6	5	4									
	30			10	10	10	10	9	9	9	8	8	7	6	5	4										
	40		10	10	10	10	9	9	9	8	8	7	7	6	4	3										
	50	10	10	10	10	9	9	9	8	8	8	7	6	5	3											
	60	10	10	9	9	9	9	8	8	8	7	6	6	5	3											
	80	9	9	9	8	8	8	7	7	7	6	5	5	3												
Shut-off PSI		226	218	209	200	192	183	174	166	157	148	131	123	105	79	62	45	27	18							
1.5	0							10	10	10	9	9	9	8	8	7	7	7	5	2					Shut-off 765 ft	
	20					10	10	10	10	10	9	9	9	8	8	7	7	6	6	4						
	30				10	10	10	10	9	9	9	9	8	8	7	7	6	6	3							
	40			10	10	10	10	9	9	9	9	8	8	7	7	6	6	5	3							
	50		10	10	10	10	9	9	9	9	8	8	8	7	6	6	5	5								
	60	10	10	10	10	9	9	9	9	8	8	8	7	6	6	5	4									
	80	10	10	9	9	9	9	8	8	8	8	7	7	6	5	5	4	3								
Shut-off PSI		322	313	305	296	287	279	270	261	253	244	227	218	201	175	158	140	123	114	71	28					
2	0								10	10	10	10	10	9	9	9	8	8	8	7	6	5	3		Shut-off 995 ft	
	20						10	10	10	10	10	10	9	9	9	8	8	7	7	6	6	4				
	30						10	10	10	10	10	10	9	9	9	8	8	7	7	6	5	4				
	40					10	10	10	10	10	10	9	9	9	8	8	7	7	7	6	5	3				
	50				10	10	10	10	10	9	9	9	8	8	8	7	7	7	6	5	3					
	60			10	10	10	10	10	9	9	9	9	8	8	7	7	7	6	4							
	80	10	10	10	10	10	9	9	9	9	8	8	7	7	6	6	5	3								
Shut-off PSI		421	412	404	395	386	378	369	360	352	343	326	317	300	274	257	239	222	213	170	127	84	40			
3	0									10	10	10	10	10	9	9	9	8	8	8	7	6	5	4	Shut-off 1310 ft	
	20									10	10	10	10	10	9	9	8	8	7	7	6	5	4			
	30										10	10	10	10	9	9	8	8	7	7	6	5	4			
	40										10	10	10	10	9	8	7	7	6	5	4					
	50	10	10	9	8	8	7	7	6	5	4															
	60	10	10	9	8	8	7	7	6	5	3															
	80	10	9	8	8	7	7	6	5	4	2															
Shut-off PSI		523	480	437	394	350	307	264	221	177	134	91	48													

- Notes: 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

4" TRI-SEAL Pumps 10 gpm Performance



Submersible Pumps

4" TRI-SEAL Pumps 10 gpm Performance

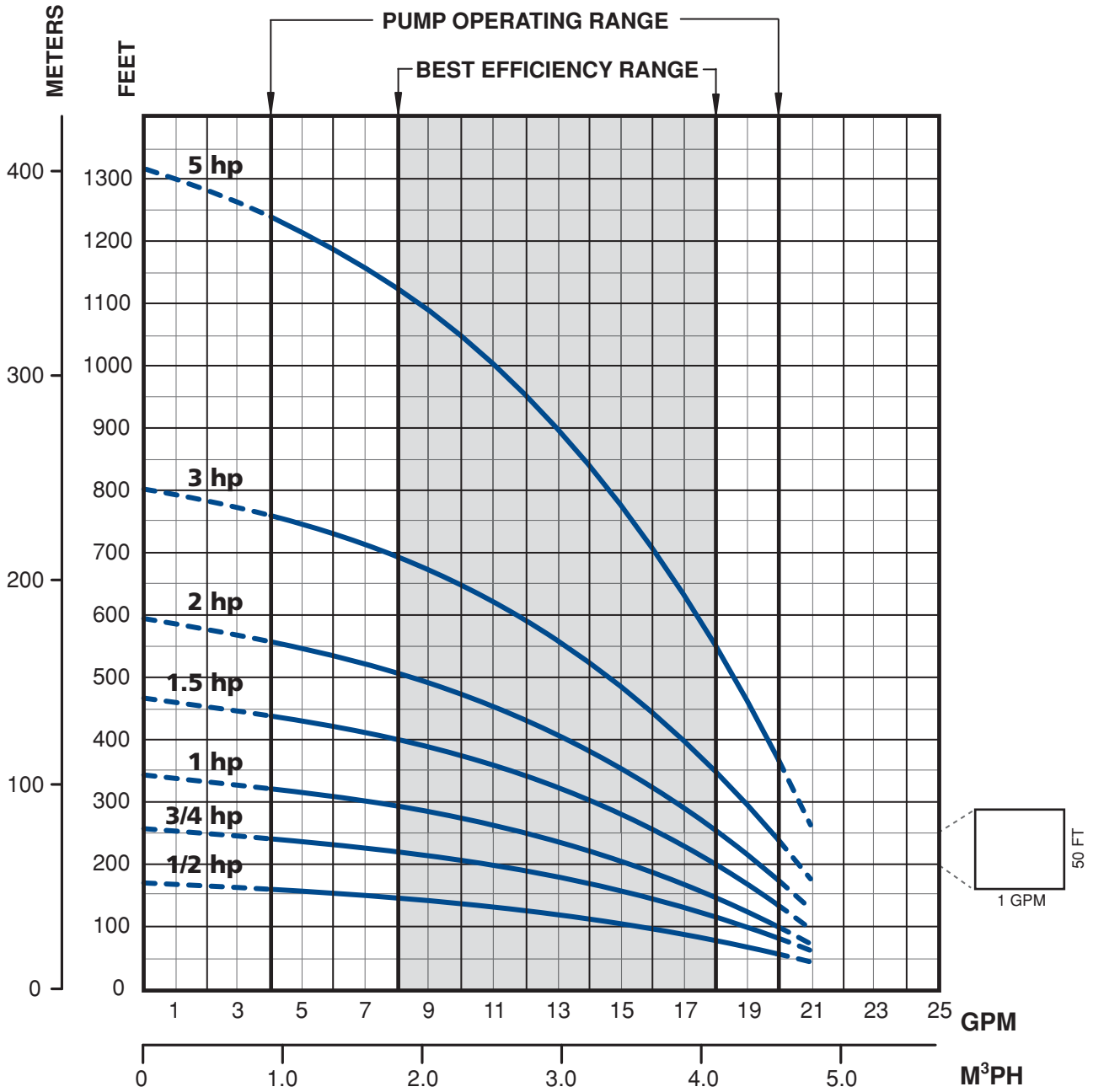
Capacities in U.S. Gallons per Minute:

HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																								
		20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	440	480	500	600	700		800	900	1000	
1/2	0				14	13	12	11	10	9	7														Shut-off 244 ft	
	20	14	13	13	12	11	10	8	6	3																
	30	13	13	12	11	10	8	6	3																	
	40	13	12	11	10	8	6	3																		
	50	12	11	9	8	5	3																			
	60	11	10	7	4																					
	80	8	6	4																						
Shut-off PSI		97	88	80	71	62	54	45	36	28	19															
3/4	0				14	13	13	12	11	10	7	8	4											Shut-off 338 ft		
	20		14	14	13	12	12	11	10	9	8	6	4													
	30	14	14	13	12	12	11	10	9	8	7	3														
	40	14	13	12	12	11	10	9	8	7	6															
	50	13	12	11	11	10	9	8	7	5	3															
	60	12	11	11	10	9	8	6	5																	
	80	11	10	9	8	6	5																			
Shut-off PSI		137	129	120	111	103	94	85	77	68	59	42	34	16												
1	0					14	13	13	12	11	10	9	7	4										Shut-off 444 ft		
	20				14	13	13	12	11	11	9	9	7	3												
	30				14	13	13	12	11	11	10	9	8	6												
	40			14	13	13	12	11	11	10	9	8	7	5												
	50		14	13	12	12	11	11	10	9	8	7	6													
	60	13	12	12	11	11	10	10	9	8	8	5	4													
	80	12	12	11	10	10	9	8	7	6	5															
Shut-off PSI		183	174	157	148	140	131	123	114	105	97	79	71	53	27	10										
1.5	0							14	13	13	12	12	10	9	9	8	7							Shut-off 615 ft		
	20						14	13	13	12	12	11	11	9	8	7	6	5								
	30					14	13	13	12	12	11	11	10	8	8	6	5	4								
	40				14	13	13	12	12	12	11	10	10	8	7	6	4									
	50			14	13	13	12	12	12	11	10	10	9	8	6	5	3									
	60		14	13	13	12	12	11	11	10	9	9	7	6	4											
	80	13	13	13	12	12	11	11	11	10	10	9	8	6	3											
Shut-off PSI		257	248	240	231	222	214	205	197	188	179	162	153	136	110	93	75	41	32							
2	0									14	13	13	12	11	10	10	9	6						Shut-off 770 ft		
	20								14	13	13	12	11	10	9	9	8	5								
	30								14	13	13	12	12	10	10	9	8	4								
	40								14	13	13	12	12	11	10	9	8	7	3							
	50						14	13	13	12	12	11	11	10	9	8	7	6								
	60				14	13	13	13	12	12	11	11	10	9	8	7	6	5								
	80			14	13	13	12	12	12	12	11	11	10	9	8	6	4	4								
Shut-off PSI		324	316	307	298	290	281	272	264	255	246	229	220	203	177	160	143	125	117	73						
3	0												14	13	13	12	12	11	9	7	5		Shut-off 1034 ft			
	20												14	13	13	12	12	10	8	6	3					
	30												14	13	13	12	12	11	10	8	5					
	40												14	14	13	12	12	11	11	9	7	4				
	50												14	14	14	13	12	12	11	11	9	7		4		
	60												14	14	14	13	12	12	11	11	10	9		6	3	
	80								14	14	13	13	12	12	11	11	10	10	8	5						
Shut-off PSI		438	430	421	413	404	395	387	378	369	361	343	335	317	291	274	257	240	231	188	144	101	58			
5	0				14	13	13	12	11	11	10	9	8	6	5									Shut-off 1648 ft		
	20				14	13	12	12	11	10	9	8	7	6	4											
	30				14	13	12	12	11	10	9	8	7	5	4											
	40				14	13	12	11	11	10	9	8	7	5	3											
	50			14	13	13	12	11	10	9	9	7	6	5	3											
	60			14	13	13	12	11	10	9	8	7	6	4												
	80		14	14	13	12	11	11	10	9	8	7	5	3												
Shut-off PSI		670	626	583	540	497	453	410	367	324	280	237	194	151	107											

- Notes: 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

4" TRI-SEAL Pumps 15 gpm Performance



Submersible Pumps

4" TRI-SEAL Pumps 15 gpm Performance

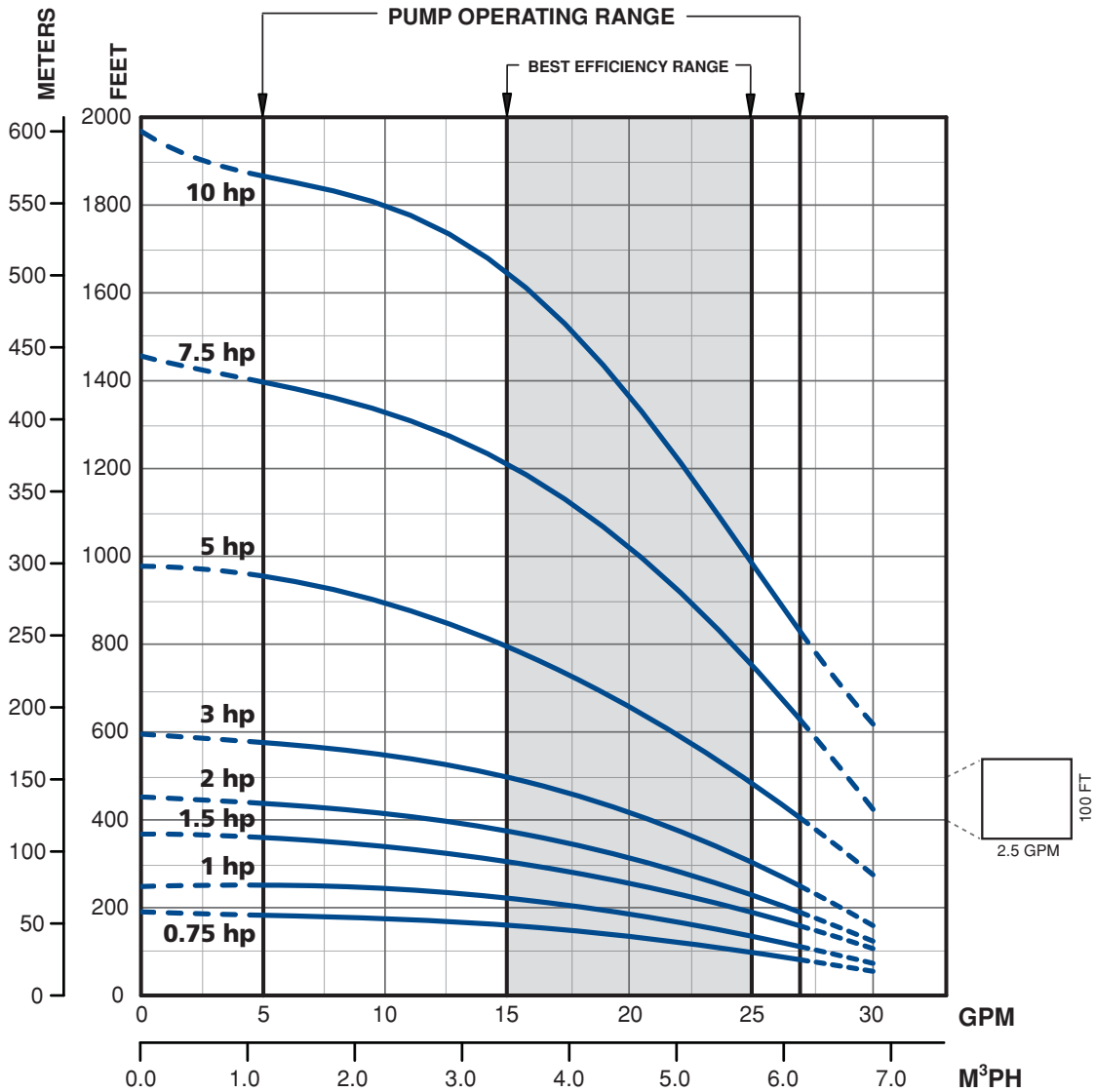
Capacities in U.S. Gallons per Minute:

HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																															
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																															
		20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	440	480	500	600	700	800	900	1000	1100	1200							
1/2	0			20	18	16	13	9	4																								
	20	19	17	15	12	8																											
	30	17	14	11	7																												
	40	14	11	6																													
	50	10	5																														
	60	4																															
	80																																
Shut-off PSI		65	56	48	39	30	22	13	4																								
3/4	0				20	19	18	16	15	13	11																						
	20		20	19	17	16	14	12	10	7																							
	30	20	18	17	16	14	12	10	6																								
	40	18	17	15	14	12	9	6																									
	50	17	15	13	11	9	5																										
	60	15	13	11	8	4																											
	80	10	7																														
Shut-off PSI		103	94	85	77	68	59	51	42	33	25																						
1	0					20	19	18	17	16	15	13	11	7																			
	20				20	19	18	17	16	15	14	12	9	6																			
	30	20	20	19	18	17	16	15	14	12	10	6																					
	40	19	19	18	17	16	15	13	12	10	8																						
	50	18	18	17	16	14	13	12	10	8	5																						
	60	17	16	15	14	13	11	10	7	4																							
	80	15	14	12	11	9	6																										
Shut-off PSI		140	131	123	114	105	97	88	79	71	62	45	36	19																			
1.5	0						20	20	19	19	18	17	16	14	11	8	4																
	20					20	20	19	18	18	17	16	15	14	12	7																	
	30				20	20	19	18	18	17	16	15	14	13	10	5																	
	40			20	19	19	18	18	17	16	15	15	13	11	9																		
	50		20	19	19	18	17	17	16	15	14	13	11	10	7																		
	60		19	19	18	17	17	16	15	14	13	12	10	8	4																		
	80		18	17	16	16	15	14	13	12	11	9	6																				
Shut-off PSI		193	185	176	167	159	150	141	133	124	115	98	89	72	46	29	11																
2	0								20	20	19	18	18	17	15	13	12	10	8														
	20						20	20	19	19	18	17	17	15	13	11	9	7	5														
	30						20	20	19	19	18	18	16	16	14	12	10	8	5														
	40				20	20	20	19	19	18	18	17	16	16	14	11	9	6															
	50			20	20	19	19	19	18	17	17	16	15	14	13	10	7	4															
	60		20	20	19	19	18	18	17	17	16	16	14	13	12	9	6																
	80		19	19	18	18	17	17	16	15	15	14	12	11	9	5																	
Shut-off PSI		249	240	231	223	214	205	197	188	179	171	153	145	127	101	84	67	49	41														
3	0													20	20	19	18	17	16	15	15	12	8										
	20													20	20	19	18	17	16	15	14	13	10	5									
	30													20	20	20	19	19	18	18	16	15	14	13	9								
	40													20	20	20	19	19	18	18	17	16	15	14	13	12	8						
	50													20	20	20	19	19	18	18	17	15	14	13	12	11	7						
	60						20	20	20	19	19	18	17	17	16	15	14	12	11	10	5												
	80		20	20	20	20	19	19	19	18	18	17	16	16	15	13	12	11	9	8													
Shut-off PSI		339	330	321	313	304	295	287	278	269	261	243	235	217	191	174	157	139	131	87	44												
5	0																		20	20	19	19	19	17	16	15	13	11	9	6			
	20																		20	20	19	19	18	18	17	15	14	12	10	7	4		
	30																		20	20	19	19	19	18	18	17	15	14	12	9	7		
	40																		20	20	19	19	18	18	18	16	15	13	11	9	6		
	50																		20	20	20	19	19	18	18	17	17	16	14	11	8	5	
	60																		20	20	20	20	19	19	18	18	17	16	14	12	10	8	4
	80								20	20	20	20	19	19	19	18	18	17	17	16	15	13	11	9	6								
Shut-off PSI		561	553	544	535	527	518	509	501	492	483	466	457	440	414	397	379	362	353	310	267	224	180	137	94	50							

- Notes: 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

4" TRI-SEAL Pumps 20 gpm Performance



Capacities in U.S. Gallons per Minute:

HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																								
		20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	440	480		500	600	700	800	900	1000	
3/4	0				24	22	21	18	14																	
	20		23	21	19	17	12																			
	30	23	21	19	17	11																				
	40	21	19	17	10																					
	50	19	16	10																						
	60	14																								
Shut-off PSI		74	65	56	48	39	30	22	13																	

Submersible Pumps

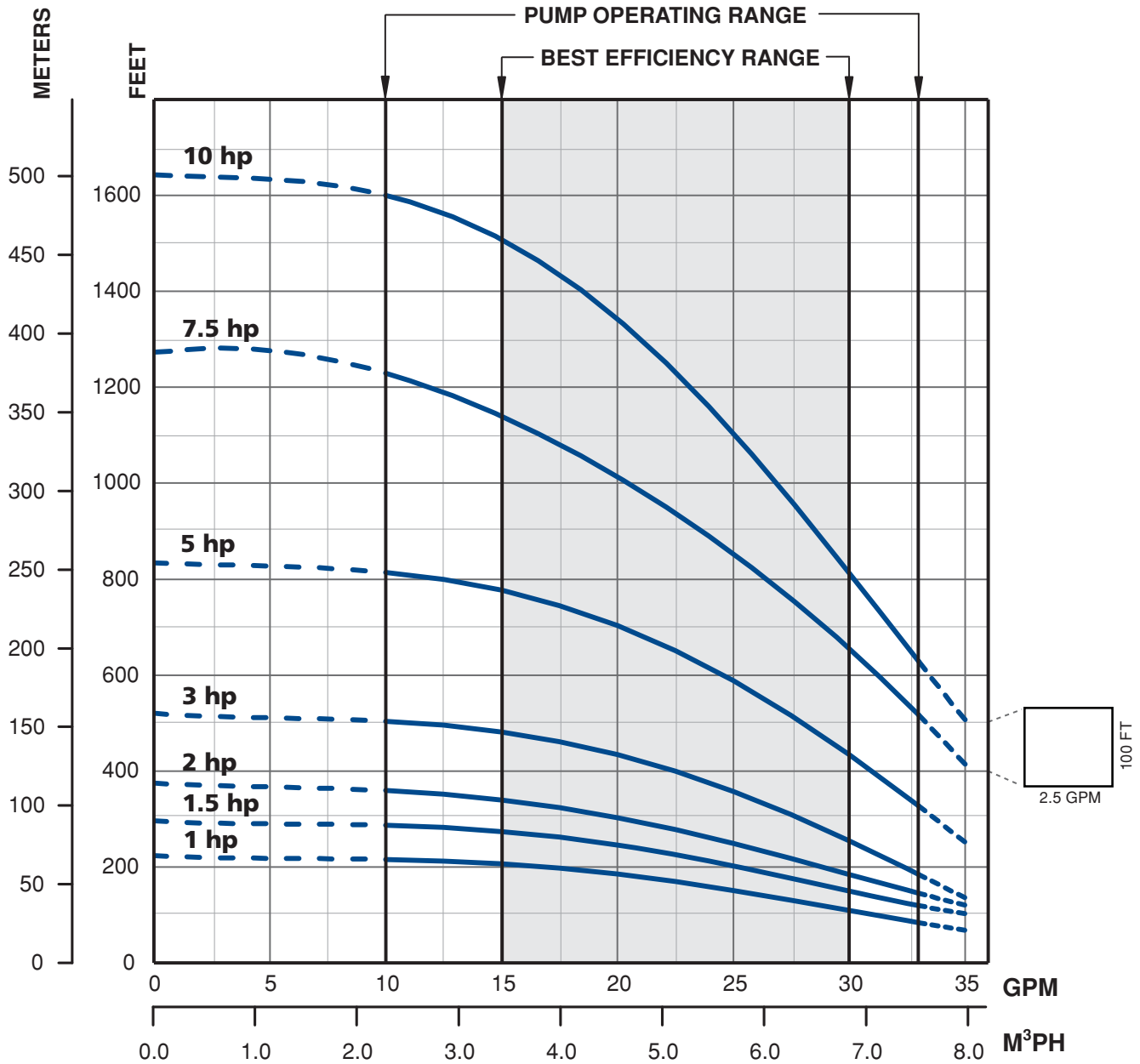
4" TRI-SEAL Pumps 20 gpm Performance

HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																						
		20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	440	480	500	600	700	800	900	1000
1	0						24	23	21	19	17													
	20					24	22	20	19	16	13													
	30			24	22	20	19	16	12															
	40	24	23	22	20	18	16	12																
	50	23	22	20	18	14	11																	
	60	21	19	17	14	10																		
	80	16	13																					
Shut-off PSI		105	96	87	79	70	61	53	44	35	27													
1.5	0								27	26	24	21	19	16										
	20							27	25	24	22	21	17	15	9									
	30						27	25	24	22	20	18	15	12										
	40			27	26	25	23	22	20	18	16	12	7											
	50		27	26	25	23	21	20	18	16	14	6												
	60	27	26	25	23	21	19	18	16	14	10													
	80	24	22	21	19	17	15	13	9															
Shut-off PSI		151	142	133	125	117	107	99	90	81	73	55	47	29										
2	0											24	23	20	16	12								
	20										24	21	20	17	12									
	30									24	23	22	20	19	16									
	40								24	23	22	21	19	17	14									
	50							24	23	22	20	19	16	14	10									
	60					24	23	22	20	19	18	14	12											
	80			24	23	21	20	19	18	16	14													
Shut-off PSI		187	179	170	161	153	144	135	127	118	110	92	84	66	40	23								
3	0												24	22	20	18	16	14						
	20												24	23	20	17	15	12	10					
	30											24	23	21	18	16	13	10						
	40										24	23	22	20	17	14	11							
	50									24	24	22	21	19	16	13								
	60								24	24	23	21	20	18	14	10								
	80							24	23	22	20	18	17	15	10									
Shut-off PSI		251	242	234	225	216	208	199	190	182	173	156	147	130	104	87	69	52	43					
5	0															24	23	20	16					
	20															24	23	20	17	15	12	10		
	30															24	23	21	18	16	13	10		
	40															24	23	20	17	14	11			
	50															24	22	22	17	15				
	60															24	23	22	21	18	14			
	80															24	23	22	21	20	16	10		
Shut-off PSI		416	408	399	390	382	373	364	356	347	339	321	313	295	269	252	235	217	209	165	122	79		
7.5	0																			27	26	24	20	
	20																			27	25	23	19	
	30																			26	25	23	21	
	40																			26	24	23	21	
	50																			27	26	24	22	
	60																			27	25	24	22	
	80	27	26	26	24	23	21	19	16	12	6									27	26	24	23	
Shut-off PSI		440	423	414	371	327	284	241	197	154	111	68	24											
10	0									26	25	23	22	21	20	18	16	13	9					
	20									27	25	24	23	22	20	19	17	15	12	7				
	30									27	25	24	23	21	20	19	17	14	11	6				
	40									26	25	23	22	21	20	18	16	14	10					
	50									27	26	24	23	22	21	20	18	16	13	8				
	60									27	26	24	23	22	21	19	18	15	12	7				
	80									26	25	24	22	21	20	19	17	14	10	5				
Shut-off PSI		662	644	636	592	549	506	462	419	376	333	289	246	203	159	116	73							

Notes: 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

4" TRI-SEAL Pumps 25 gpm Performance



Submersible Pumps

4" TRI-SEAL Pumps 25 gpm Performance

Capacities in U.S. Gallons per Minute:

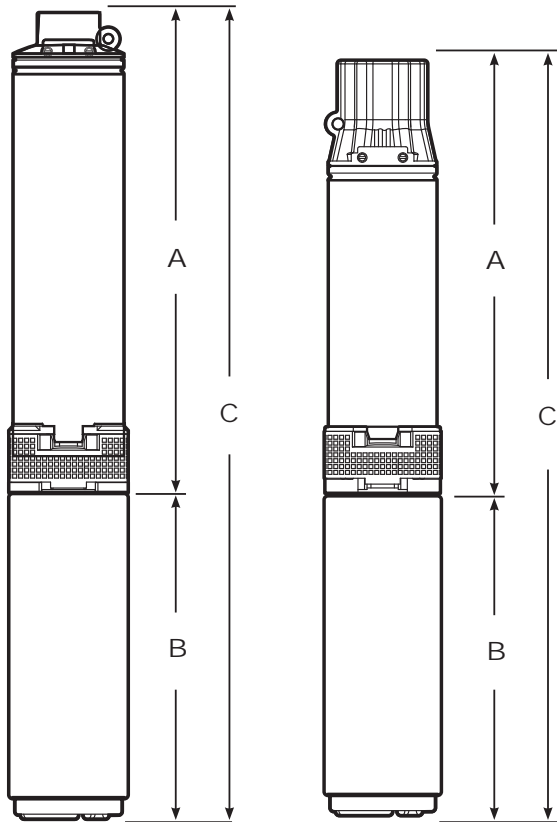
HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																								
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																								
		20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	440	480	500	600	700	800	900	1000		
1	0			35	33	31	28	26	24	21	17														Shut-off 222 ft	
	20			32	30	28	25	22	18	15																
	30	32	29	27	25	22	19																			
	40	29	27	25	22	19																				
	50	26	24	21	16																					
	60	24	21	17																						
Shut-off PSI		87	79	70	61	53	44	35	27	18	10															
1.5	0				32	30	28	26	24	22	19													Shut-off 297 ft		
	20				32	30	28	26	24	22	19															
	30			32	30	28	26	24	22	19	16															
	40	33	32	29	27	25	23	21	19	15																
	50	32	29	27	25	23	21	18																		
	60	29	27	25	23	20	18																			
80	24	22	20	17																						
Shut-off PSI		120	111	103	94	85	77	68	59	51	42	25	16													
2	0							33	32	30	28	25	24	20										Shut-off 375 ft		
	20							33	32	30	28	25	21	20												
	30				34	33	31	29	28	26	24	23	19	17												
	40			34	33	31	29	28	26	24	23	21	17													
	50	33	32	30	29	27	26	24	22	20	18															
	60	32	30	28	27	26	24	22	20	18																
80	28	26	25	23	21	20	17																			
Shut-off PSI		154	145	136	128	119	110	102	93	84	76	58	50	32												
3	0									33	32	30	29	28	24	22	19	15						Shut-off 519 ft		
	20									33	32	31	30	28	27	25	22	19								
	30						33	32	32	31	30	29	27	26	24	20										
	40						33	32	32	31	30	29	28	26	25	22	18									
	50					33	32	31	31	30	29	28	27	24	23	21	15									
	60			33	32	31	31	30	29	28	26	25	23	22	19											
80	32	31	30	29	28	27	26	25	24	23	20	19	15													
Shut-off PSI		216	207	199	190	181	173	164	155	147	138	121	112	95	69	52	34	17								
5	0													33	32	31	30	28	28	24	20			Shut-off 833 ft		
	20														33	32	30	30	28	27	26	22	17			
	30														33	33	31	30	28	27	26	25	21		15	
	40														33	32	32	31	29	28	27	25	24		20	
	50														33	33	32	31	30	28	27	25	24		23	19
	60														33	33	32	31	31	30	28	26	25		23	22
80						33	33	32	31	31	30	29	28	26	25	23	21	20								
Shut-off PSI		352	343	326	317	309	300	291	283	274	257	248	231	205	187	170	153	144	101	58						
7.5	0																							Shut-off 1281 ft		
	20																									
	30																									
	40																									
	50																									
	60																									
80	33	32	32	31	30	30	28	25	22	19	16															
Shut-off PSI		425	399	382	364	347	338	295	252	208	165	122	78	35												
10	0																							Shut-off 1642 ft		
	20																									
	30																									
	40																									
	50																									
	60																									
80																										
Shut-off PSI		581	555	538	520	503	494	451	408	365	321	278	235	191	148	105	61	18								

Notes: 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

4" TRI-SEAL Pumps

Dimensions



Plastic with 2-Wire Motors

GPM	HP	STAGES	A	B	C	PE WT.	PMA WT.
5	1/2	8	14.12	9.51	23.63	6	23
	3/4	12	17.41	10.64	28.05	8	26
	1	15	19.87	11.73	31.60	9	27
	1.5	21	24.81	15.10	39.91	11	33
7	1/2	7	13.30	9.51	22.81	5	22
	3/4	10	15.76	10.64	26.40	7	25
	1	13	18.23	11.73	29.96	8	26
	1.5	18	22.34	15.10	37.44	11	33
10	1/2	6	12.97	9.51	22.48	5	22
	3/4	8	14.69	10.64	25.33	6	24
	1	11	17.44	11.73	29.17	7	28
	1.5	15	21.06	15.10	36.16	9	32
15	1/2	4	11.45	9.51	20.96	4	21
	3/4	6	12.97	10.64	23.61	5	23
	1	8	14.69	11.73	26.42	6	27
	1.5	11	17.44	15.10	32.54	7	30
20	3/4	5	13.65	10.64	24.29	5	23
	1	7	16.10	11.73	27.83	6	29
	1.5	10	19.77	15.10	34.87	7	41
25	1	6	14.88	11.73	26.61	6	27
	1.5	8	17.32	15.10	32.42	7	30

Plastic with 3-Wire Motors

GPM	HP	STAGES	A	B	C	PE WT.	PMA WT.
5	1/2	8	14.12	9.51	23.63	6	23
	3/4	12	17.41	10.64	28.05	8	26
	1	15	19.87	11.73	31.60	9	27
	1.5	21	24.81	13.60	38.41	11	33
7	1/2	7	13.30	9.51	22.81	5	22
	3/4	10	15.76	10.64	26.40	7	25
	1	13	18.23	11.73	29.96	8	26
	1.5	18	22.34	13.60	35.94	11	33
10	1/2	6	12.97	9.51	22.48	5	22
	3/4	8	14.69	10.64	25.33	6	24
	1	11	17.44	11.73	29.17	7	28
	1.5	15	21.06	13.60	34.66	9	32
15	1/2	4	11.45	9.51	20.96	4	21
	3/4	6	12.97	10.64	23.61	5	23
	1	8	14.69	11.73	26.42	6	27
	1.5	11	17.44	13.60	31.04	7	30
20	3/4	5	13.65	10.64	24.29	5	23
	1	7	16.10	11.73	27.83	6	29
	1.5	10	19.77	13.60	33.37	7	41
25	1	6	14.88	11.73	26.61	6	27
	1.5	8	17.32	15.10	30.92	7	30

Notes: All lengths are in inches
 All weights are in pounds
 Maximum diameter with cable guard is 3.90"
 PE - Pump end only
 PMA - Pump and motor assembly

Submersible Pumps

4" TRI-SEAL Pumps Dimensions

Stainless Steel with 2-Wire Motors

GPM	HP	STAGES	A	B	C	PE WT.	PMA WT.
5	1/2	8	13.57	9.51	23.08	8	25
	3/4	12	16.86	10.64	27.50	10	28
	1	15	19.33	11.73	31.06	11	29
	1.5	21	24.26	15.10	39.36	13	35
7	1/2	7	12.75	9.51	22.26	7	23
	3/4	10	15.22	10.64	25.86	9	26
	1	13	17.68	11.73	29.41	10	27
	1.5	18	21.80	15.10	36.90	13	34
10	1/2	6	12.39	9.51	21.90	8	25
	3/4	8	14.14	10.64	24.78	9	27
	1	11	16.85	11.73	28.58	10	32
	1.5	15	20.48	15.10	35.58	13	35
15	1/2	4	10.64	9.51	20.15	7	25
	3/4	6	12.39	10.64	23.03	8	27
	1	8	14.14	11.73	25.87	9	30
	1.5	11	16.85	15.10	31.95	10	33
20	3/4	5	13.10	10.64	23.74	10	29
	1	7	15.55	11.73	27.28	11	31
	1.5	10	19.22	15.10	34.32	12	42
25	1	6	14.33	11.73	26.06	8	30
	1.5	8	16.77	15.10	31.87	9	33

Stainless Steel with 3-Wire Motors

GPM	HP	STAGES	A	B	C	PE WT.	PMA WT.
5	1/2	8	13.57	9.51	23.08	8	25
	3/4	12	16.86	10.64	27.50	10	28
	1	15	19.33	11.73	31.06	11	29
	1.5	21	24.26	13.60	37.86	13	35
	2	26	30.46	15.10	45.56	15	N/A
7	1/2	7	12.75	9.51	22.26	7	23
	3/4	10	15.22	10.64	25.86	9	26
	1	13	17.68	11.73	29.41	10	27
	1.5	18	21.80	13.60	35.40	13	34
	2	24	26.73	15.10	41.83	16	N/A
10	3	32	35.39	19.04	54.43	19	N/A
	1/2	6	12.39	9.51	21.90	8	25
	3/4	8	14.14	10.64	24.78	9	27
	1	11	16.85	11.73	28.58	10	32
	1.5	15	20.48	13.60	34.08	13	35
15	2	18	25.26	15.10	40.36	16	N/A
	3	24	30.70	19.04	49.74	17	N/A
	5	39	44.20	29.19	73.39	20	N/A
	1/2	4	10.64	9.51	20.15	7	25
	3/4	6	12.39	10.64	23.03	8	27
20	1	8	14.14	11.73	25.87	9	30
	1.5	11	16.85	13.60	30.45	10	33
	2	14	19.57	15.10	34.67	15	N/A
	3	19	26.17	19.04	45.21	16	N/A
	5	31	37.00	29.19	66.19	18	N/A
25	3/4	5	13.10	10.64	23.74	10	29
	1	7	15.55	11.73	27.28	11	31
	1.5	10	19.22	13.60	32.82	12	43
	2	12	21.66	15.10	36.76	14	N/A
	3	16	26.55	19.04	45.59	16	N/A
	5	26	40.86	29.19	70.05	20	N/A
	7.5	39	60.77	29.60	90.37	27	N/A
10	52	76.66	32.60	109.26	35	N/A	
25	1	6	14.33	11.73	26.06	8	30
	1.5	8	16.77	13.60	30.37	9	33
	2	10	19.22	15.10	34.32	10	N/A
	3	14	24.11	19.04	43.15	12	N/A
	5	23	37.19	28.19	66.38	16	N/A
	7.5	35	55.88	29.60	85.48	26	N/A
	10	44	66.88	32.60	99.48	35	N/A

Notes: All lengths are in inches
 All weights are in pounds
 Maximum diameter with cable guard is 3.90"
 PE - Pump end only
 PMA - Pump and motor assembly

Submersible Pumps

4" Series V Pumps

Features & Ordering Information

J-CLASS Series V

4" Submersible Series V

The standard J-Class Series Five submersible pump features unique hydraulics that improve efficiency and minimize wear even when pumping abrasives. Discharge and motor brackets are available in thermoplastic or stainless steel with a removable check valve system. Available in 5, 7, 10, 15, 20 and 25 gpm, 1/2 - 5 horsepower.

Features:

- 6 performance ranges: 5, 7, 10, 15, 20 and 25 gpm
- Horsepower ranges: 1/2 - 5
- Discharge head and motor bracket produced with industry proven, engineered materials. Available in 300 series stainless steel or high quality thermoplastic resins.
- Large wrench flat area on the discharge head for ease of installation
- Dry run designed top bearing positively supports the 300 series stainless steel 7/16" hex shaft
- Removable internal check valve
- Powered by Franklin Electric corrosion resistant super stainless 4" submersible motors with lightning protection
- Maximum water temperature with proper flow is 120 °F/49 °C. Consult factory for details.



NRTL/C
CSA 108
UL 778

Submersible Pumps

4" Series V Pumps Features & Ordering Information

Stainless Steel Ordering Information:

(See pgs. 2-3 for model number explanation)

GPM	HP	STG	VOLTS	2-WIRE		3-WIRE	
				MODEL NO.	ORDER NO.	MODEL NO.	ORDER NO.
5	1/2	8	115	5JV05S4-2W115	95220505	5JV05S4-3W115	95220530
	1/2	8	230	5JV05S4-2W230	95220510	5JV05S4-3W230	95220535
	3/4	12	230	5JV07S4-2W230	95220515	5JV07S4-3W230	95220540
	1	15	230	5JV1S4-2W230	95220520	5JV1S4-3W230	95220545
	1.5	21	230	5JV15S4-2W230	95220525	5JV15S4-3W230	95220550
7	1/2	7	115	7JV05S4-2W115	95220705	7JV05S4-3W115	95220730
	1/2	7	230	7JV05S4-2W230	95220710	7JV05S4-3W230	95220735
	3/4	10	230	7JV07S4-2W230	95220715	7JV07S4-3W230	95220740
	1	13	230	7JV1S4-2W230	95220720	7JV1S4-3W230	95220745
	1.5	18	230	7JV15S4-2W230	95220725	7JV15S4-3W230	95220750
10	1/2	6	115	10JV05S4-2W115	95221005	10JV05S4-3W115	95221030
	1/2	6	230	10JV05S4-2W230	95221010	10JV05S4-3W230	95221035
	3/4	8	230	10JV07S4-2W230	95221015	10JV07S4-3W230	95221040
	1	11	230	10JV1S4-2W230	95221020	10JV1S4-3W230	95221045
	1.5	15	230	10JV15S4-2W230	95221025	10JV15S4-3W230	95221050
15	1/2	4	115	15JV05S4-2W115	95221505	15JV05S4-3W115	95221530
	1/2	4	230	15JV05S4-2W230	95221510	15JV05S4-3W230	95221535
	3/4	6	230	15JV07S4-2W230	95221515	15JV07S4-3W230	95221540
	1	8	230	15JV1S4-2W230	95221520	15JV1S4-3W230	95221545
	1.5	11	230	15JV15S4-2W230	95221525	15JV15S4-3W230	95221550
20	3/4	5	230	20JV07S4-2W230	95222015	20JV07S4-3W230	95222040
	1	7	230	20JV1S4-2W230	95222020	20JV1S4-3W230	95222045
	1.5	10	230	20JV15S4-2W230	95222025	20JV15S4-3W230	95222050
25	1	6	230	25JV1S4-2W230	95222520	25JV1S4-3W230	95222545
	1.5	8	230	25JV15S4-2W230	95222525	25JV15S4-3W230	95222550

Note: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

Submersible Pumps

4" Series V Pumps

Features & Ordering Information

Plastic Ordering Information:

(See pgs. 2-3 for model number explanation)

GPM	HP	STG	VOLTS	2-WIRE		3-WIRE	
				MODEL NO.	ORDER NO.	MODEL NO.	ORDER NO.
5	1/2	8	115	5JV05P4-2W115	95200505	5JV05P4-3W115	95200530
	1/2	8	230	5JV05P4-2W230	95200510	5JV05P4-3W230	95200535
	3/4	12	230	5JV07P4-2W230	95200515	5JV07P4-3W230	95200540
	1	15	230	5JV1P4-2W230	95200520	5JV1P4-3W230	95200545
	1.5	21	230	5JV15P4-2W230	95200525	5JV15P4-3W230	95200550
7	1/2	7	115	7JV05P4-2W115	95200705	7JV05P4-3W115	95200730
	1/2	7	230	7JV05P4-2W230	95200710	7JV05P4-3W230	95200735
	3/4	10	230	7JV07P4-2W230	95200715	7JV07P4-3W230	95200740
	1	13	230	7JV1P4-2W230	95200720	7JV1P4-3W230	95200745
	1.5	18	230	7JV15P4-2W230	95200725	7JV15P4-3W230	95200750
10	1/2	6	115	10JV05P4-2W115	95201005	10JV05P4-3W115	95201030
	1/2	6	230	10JV05P4-2W230	95201010	10JV05P4-3W230	95201035
	3/4	8	230	10JV07P4-2W230	95201015	10JV07P4-3W230	95201040
	1	11	230	10JV1P4-2W230	95201020	10JV1P4-3W230	95201045
	1.5	15	230	10JV15P4-2W230	95201025	10JV15P4-3W230	95201050
15	1/2	4	115	15JV05P4-2W115	95201505	15JV05P4-3W115	95201530
	1/2	4	230	15JV05P4-2W230	95201510	15JV05P4-3W230	95201535
	3/4	6	230	15JV07P4-2W230	95201515	15JV07P4-3W230	95201540
	1	8	230	15JV1P4-2W230	95201520	15JV1P4-3W230	95201545
	1.5	11	230	15JV15P4-2W230	95201525	15JV15P4-3W230	95201550
20	3/4	5	230	20JV07P4-2W230	95202015	20JV07P4-3W230	95202040
	1	7	230	20JV1P4-2W230	95202020	20JV1P4-3W230	95202045
	1.5	10	230	20JV15P4-2W230	95202025	20JV15P4-3W230	95202050
25	1	6	230	25JV1P4-2W230	95202520	25JV1P4-3W230	95202545
	1.5	8	230	25JV15P4-2W230	95202525	25JV15P4-3W230	95202550

Note: All dimensions are in inches. Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

Submersible Pumps

4" Series V Pumps Features & Ordering Information

Pump End Assemblies Only Ordering Information: (See pgs. 2-3 for model number explanation)

PLASTIC				
GPM	HP	STG	MODEL NO.	ORDER NO.
5	1/2	8	5JV05P4-PE	95210500
	3/4	12	5JV07P4-PE	95210501
	1	15	5JV1P4-PE	95210502
	1.5	21	5JV15P4-PE	95210503
7	1/2	7	7JV05P4-PE	95210700
	3/4	10	7JV07P4-PE	95210701
	1	13	7JV1P4-PE	95210702
	1.5	18	7JV15P4-PE	95210703
10	1/2	6	10JV05P4-PE	95211000
	3/4	8	10JV07P4-PE	95211001
	1	11	10JV1P4-PE	95211002
	1.5	15	10JV15P4-PE	95211003
15	1/2	4	15JV05P4-PE	95211500
	3/4	6	15JV07P4-PE	95211501
	1	8	15JV1P4-PE	95211502
	1.5	11	15JV15P4-PE	95211503
20	3/4	5	20JV07P4-PE	95212001
	1	7	20JV1P4-PE	95212002
	1.5	10	20JV15P4-PE	95212003
25	1	6	25JV1P4-PE	95212501
	1.5	8	25JV15P4-PE	95212502

Note: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

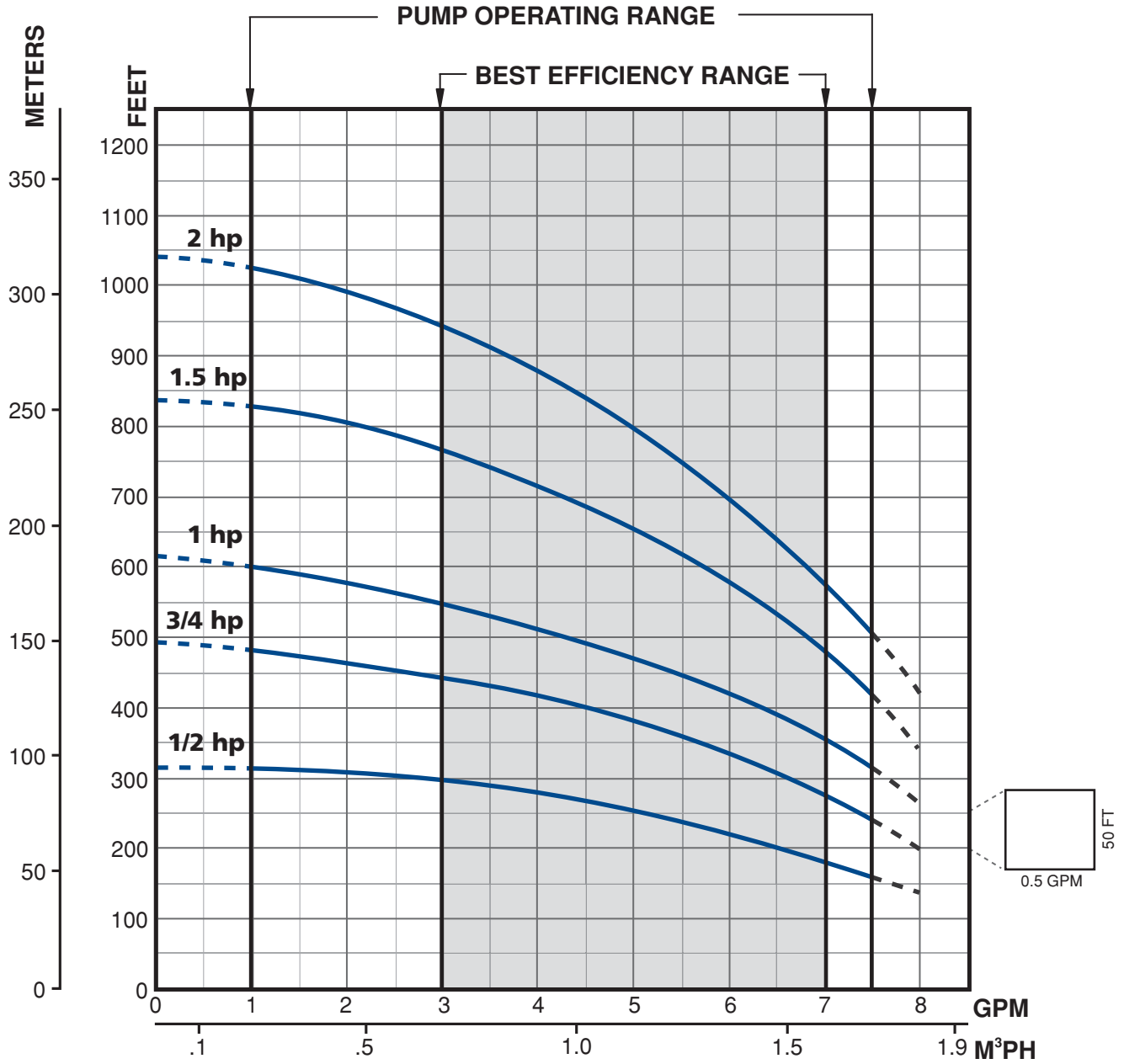
STAINLESS STEEL				
GPM	HP	STG	MODEL NO.	ORDER NO.
5	1/2	8	5JV05S4-PE	95230500
	3/4	12	5JV07S4-PE	95230501
	1	15	5JV1S4-PE	95230502
	1.5	21	5JV15S4-PE	95230503
	2	26	5JV2S4-PE	95230504
7	1/2	7	7JV05S4-PE	95230700
	3/4	10	7JV07S4-PE	95230701
	1	13	7JV1S4-PE	95230702
	1.5	18	7JV15S4-PE	95230703
	2	24	7JV2S4-PE	95230704
10	3	32	7JV3S4-PE	95230705
	1/2	6	10JV05S4-PE	95231000
	3/4	8	10JV07S4-PE	95231001
	1	11	10JV1S4-PE	95231002
	1.5	15	10JV15S4-PE	95231003
15	2	18	10JV2S4-PE	95231004
	3	24	10JV3S4-PE	95231005
	5	39	10JV5S4-PE	95231006
	1/2	4	15JV05S4-PE	95231500
	3/4	6	15JV07S4-PE	95231501
20	1	8	15JV1S4-PE	95231502
	1.5	11	15JV15S4-PE	95231503
	2	14	15JV2S4-PE	95231504
	3	19	15JV3S4-PE	95231505
	5	31	15JV5S4-PE	95231506
25	3/4	5	20JV07S4-PE	95232001
	1	7	20JV1S4-PE	95232002
	1.5	10	20JV15S4-PE	95232003
	2	12	20JV2S4-PE	95232004
	3	16	20JV3S4-PE	95232005
25	5	26	20JV5S4-PE	95232006
	1	6	25JV1S4-PE	95232501
	1.5	8	25JV15S4-PE	95232502
	2	10	25JV2S4-PE	95232503
	3	14	25JV3S4-PE	95232504
25	5	23	25JV5S4-PE	95232505

Note: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models.

Submersible Pumps

4" Series V Pumps

5 gpm Performance



Submersible Pumps

4" Series V Pumps 5 gpm Performance

Capacities in U.S. Gallons per Minute:

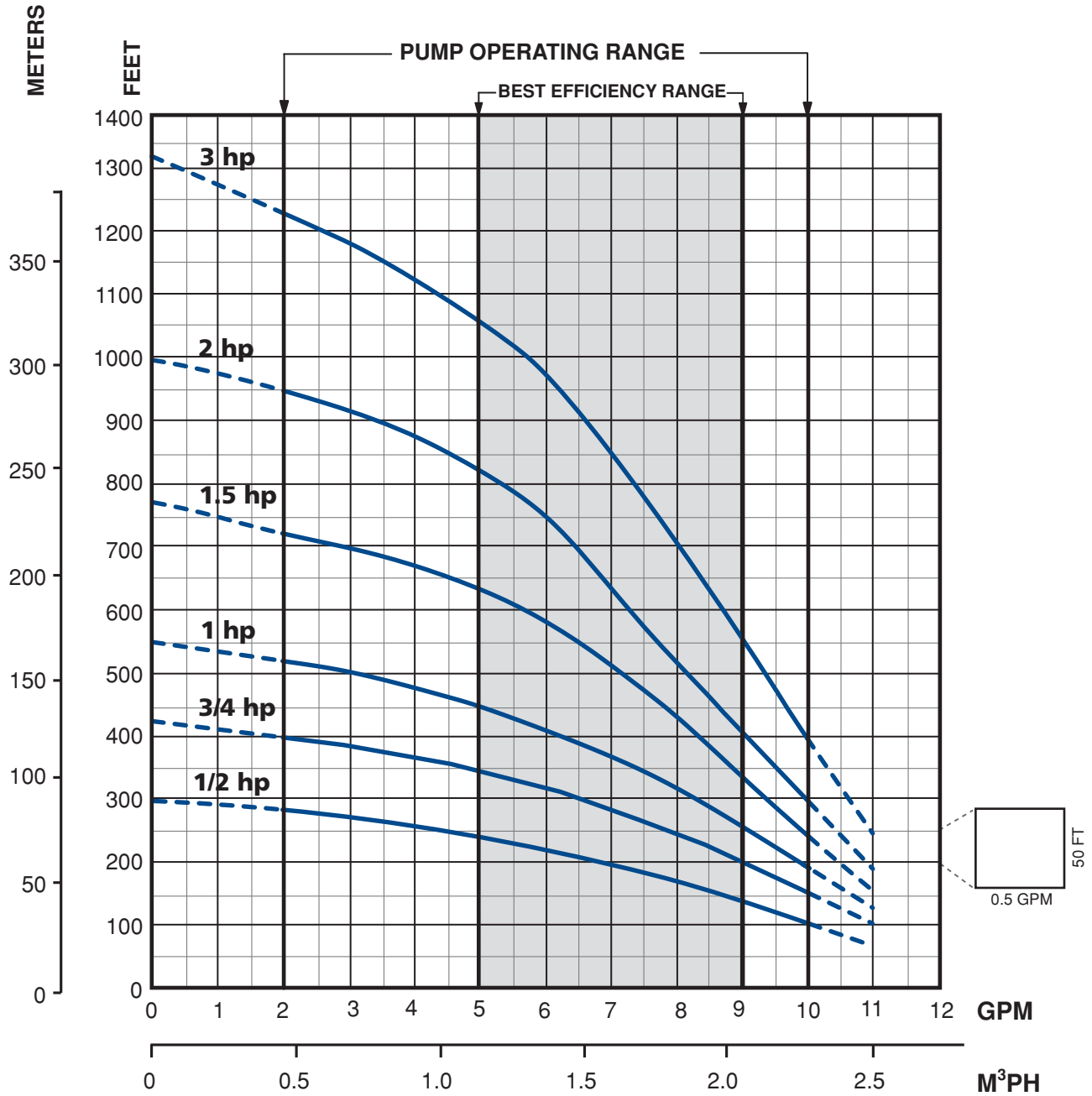
HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																									
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																									
		20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	440	480	500	600	700	800	900	1000			
1/2	0							7	7	6	6	5	4													Shut-off 315 ft	
	20					8	7	6	6	5	5	3	2														
	30				7	7	6	6	5	5	4	2															
	40			7	7	6	6	5	5	4	3																
	50		7	6	6	6	5	5	4	2																	
	60	7	7	6	6	5	4	4	2																		
	80	6	6	5	4	3																					
Shut-off PSI		127	119	110	101	93	84	75	67	58	49	32	23														
3/4	0									7	7	7	6	5	4	3										Shut-off 495 ft	
	20								7	7	7	6	6	5	4	3											
	30								7	7	7	6	6	6	5	3											
	40							7	7	7	6	6	6	5	4	2											
	50					7	7	7	6	6	6	5	5	4													
	60				7	7	7	6	6	6	5	5	4	3													
	80		7	7	7	6	6	6	5	5	4	3	3														
Shut-off PSI		205	196	188	179	171	162	153	145	136	127	110	101	84	58	41	23										
1	0											8	7	6	6	5	4	4								Shut-off 615 ft	
	20											7	7	6	5	4	3										
	30											7	7	7	6	5	5	3	2								
	40											7	7	7	6	5	4	3									
	50										7	7	7	7	6	6	4	3									
	60								7	7	7	7	6	6	5	4											
	80						7	7	7	6	6	5	5	4													
Shut-off PSI		257	248	240	231	222	214	205	197	188	179	162	153	136	110	93	75	58	49								
1.5	0														7	7	7	6	5	4	2				Shut-off 835 ft		
	20														7	7	7	6	6	6	5	3					
	30														7	7	7	6	6	6	4	3					
	40														7	7	7	6	6	6	5	4	2				
	50														7	7	7	6	6	5	5	3					
	60														7	7	7	6	6	5	5	5	3				
	80										7	7	7	7	6	6	5	5	4	4	2						
Shut-off PSI		352	344	335	326	318	309	300	292	283	274	257	249	231	205	188	171	153	145	101	58	15					
2	0															7	7	7	6	5	4	3			Shut-off 1040 ft		
	20															7	7	7	6	5	4	2					
	30															7	7	7	6	6	5	3					
	40															7	7	7	6	6	6	5	3				
	50															7	7	7	6	6	5	4	3				
	60															7	7	7	6	6	6	5	4	3			
	80												7	7	7	6	6	6	6	5	3						
Shut-off PSI		441	432	424	415	406	398	389	381	372	363	346	337	320	294	277	259	242	233	190	147	104	60				

- Notes: 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

4" Series V Pumps

7 gpm Performance



Submersible Pumps

4" Series V Pumps 7 gpm Performance

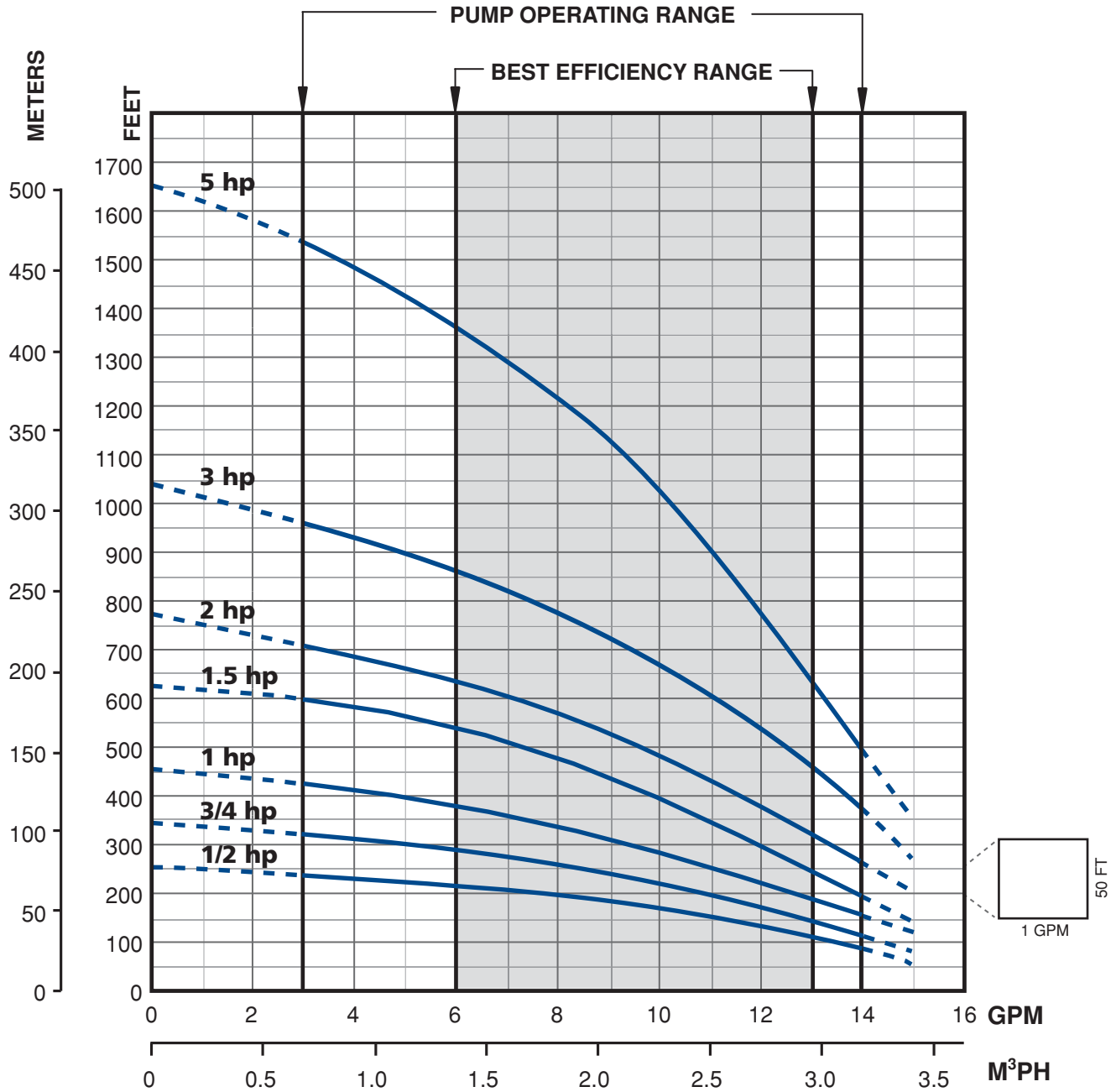
Capacities in U.S. Gallons per Minute:

HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																								
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																								
		20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	440	480	500	600	700	800	900	1000		
1/2	0				10	10	9	9	8	7	6	5	4													Shut-off 300 ft
	20		10	9	9	8	8	7	6	5	4															
	30	10	9	9	8	7	7	6	5	4	3															
	40	9	9	8	8	7	6	5	4	3																
	50	9	8	7	7	6	5	4	3																	
	60	8	7	6	6	5	4	3																		
	80	6	5	4	3																					
Shut-off PSI		121	112	103	95	86	77	69	60	52	43	26	17													
3/4	0					10	10	9	9	9	8	7	6	4											Shut-off 422 ft	
	20			10	10	10	9	9	8	8	7	6	6	4												
	30		10	10	10	9	9	8	8	7	7	6	5	3												
	40	10	10	10	9	9	8	8	7	7	6	5	4													
	50	10	9	9	9	8	8	7	7	6	6	4	3													
	60	9	9	9	8	8	7	7	6	6	5	3														
	80	8	8	8	7	6	6	5	5	4	3															
Shut-off PSI		174	165	156	148	139	130	122	113	104	96	78	70	52	26											
1	0						10	10	10	9	9	8	8	7	6	5	3	3							Shut-off 544 ft	
	20					10	10	10	9	9	9	8	8	7	6	5	4									
	30			10	10	10	10	9	9	9	8	8	7	6	5	4										
	40		10	10	10	10	9	9	9	8	8	7	7	6	4	3										
	50	10	10	10	10	9	9	9	8	8	8	7	6	5	3											
	60	10	10	9	9	9	9	8	8	8	7	6	6	5	3											
	80	9	9	9	8	8	8	7	7	7	6	5	5	3												
Shut-off PSI		226	218	209	200	192	183	174	166	157	148	131	123	105	79	62	45	27	18							
1.5	0							10	10	10	9	9	9	8	8	7	7	7	5	2					Shut-off 765 ft	
	20					10	10	10	10	9	9	9	8	8	7	7	6	6	4							
	30				10	10	10	10	9	9	9	9	8	8	7	7	6	6	3							
	40			10	10	10	10	9	9	9	9	8	8	7	7	6	6	5	3							
	50		10	10	10	10	9	9	9	9	9	8	8	7	6	6	5	5								
	60	10	10	10	10	9	9	9	9	8	8	7	7	6	6	5	4									
	80	10	10	9	9	9	9	9	8	8	8	7	7	6	5	5	4	3								
Shut-off PSI		322	313	305	296	287	279	270	261	253	244	227	218	201	175	158	140	123	114	71	28					
2	0								10	10	10	10	10	9	9	9	8	8	7	6	5	3			Shut-off 995 ft	
	20						10	10	10	10	10	10	9	9	9	8	8	8	7	7	6	6	4			
	30						10	10	10	10	10	9	9	9	9	8	8	8	7	7	6	5	4			
	40					10	10	10	10	10	10	9	9	9	9	8	8	7	7	7	6	5	3			
	50				10	10	10	10	10	9	9	9	9	8	8	8	7	7	7	6	5	3				
	60			10	10	10	10	10	9	9	9	9	9	8	8	7	7	7	7	6	4					
	80	10	10	10	10	10	9	9	9	9	9	8	8	7	7	7	6	6	5	3						
Shut-off PSI		421	412	404	395	386	378	369	360	352	343	326	317	300	274	257	239	222	213	170	127	84	40			
3	HP	PSI	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400									Shut-off 1310 ft	
	0			10	9	9	8	7	7	6	5	4	2													
	20		10	9	9	8	8	7	6	6	5	3														
	30		10	9	9	8	8	7	6	6	4	3														
	40		10	9	9	8	7	7	6	5	4															
	50	10	10	9	8	8	7	7	6	5	4															
	60	10	10	9	8	8	7	7	6	5	3															
Shut-off PSI		523	480	437	394	350	307	264	221	177	134	91	48													

- Notes: 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

4" Series V Pumps 10 gpm Performance



Submersible Pumps

4" Series V Pumps 10 gpm Performance

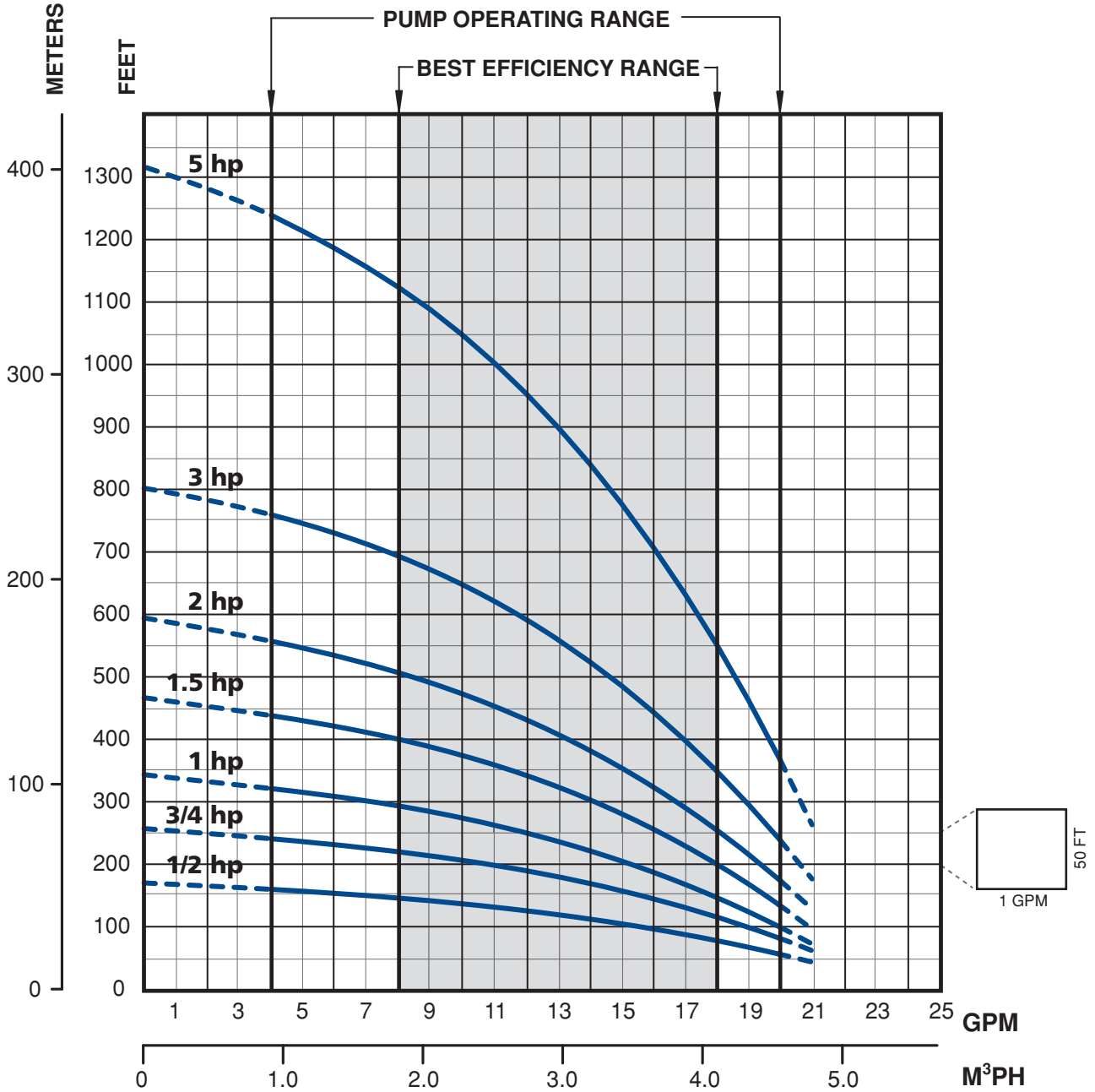
Capacities in U.S. Gallons per Minute:

HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																									
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																									
		20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	440	480	500	600	700	800	900	1000			
1/2	0				14	13	12	11	10	9	7														Shut-off 244 ft		
	20	14	13	13	12	11	10	8	6	3																	
	30	13	13	12	11	10	8	6	3																		
	40	13	12	11	10	8	6	3																			
	50	12	11	9	8	5	3																				
	60	11	10	7	4																						
	80	8	6	4																							
Shut-off PSI		97	88	80	71	62	54	45	36	28	19																
3/4	0				14	13	13	12	11	10	7	8	4												Shut-off 338 ft		
	20		14	14	13	12	12	11	10	9	8	6	4														
	30	14	14	13	12	12	11	10	9	8	7	3															
	40	14	13	12	12	11	10	9	8	7	6																
	50	13	12	11	11	10	9	8	7	5	3																
	60	12	11	11	10	9	8	6	5																		
	80	11	10	9	8	6	5																				
Shut-off PSI		137	129	120	111	103	94	85	77	68	59	42	34	16													
1	0					14	13	13	12	11	10	9	7	4											Shut-off 444 ft		
	20				14	13	13	12	11	11	9	9	7	3													
	30				14	13	13	12	11	11	10	9	8	6													
	40			14	13	13	12	11	11	10	9	8	7	5													
	50		14	13	12	12	11	11	10	9	8	7	6														
	60	13	12	12	11	11	10	10	9	8	8	5	4														
	80	12	12	11	10	10	9	8	7	6	5																
Shut-off PSI		183	174	157	148	140	131	123	114	105	97	79	71	53	27	10											
1.5	0							14	13	13	12	12	10	9	9	8	7								Shut-off 615 ft		
	20						14	13	13	12	12	11	11	9	8	7	6	5									
	30						14	13	13	12	12	11	11	10	8	8	6	5	4								
	40					14	13	13	12	12	12	11	10	10	8	7	6	4									
	50				14	13	13	12	12	12	11	10	10	9	8	6	5	3									
	60		14	13	13	13	12	12	11	11	11	10	9	9	7	6	4										
	80	13	13	13	12	12	11	11	11	10	10	9	9	8	6	3											
Shut-off PSI		257	248	240	231	222	214	205	197	188	179	162	153	136	110	93	75	41	32								
2	0										14	13	13	12	11	10	10	9	6					Shut-off 770 ft			
	20										14	13	13	12	11	10	9	9	8	5							
	30										14	13	13	12	12	10	10	9	8	4							
	40										14	13	13	12	12	11	10	9	8	7	3						
	50										14	13	13	12	12	11	10	9	8	7	6						
	60					14	13	13	13	12	12	11	11	10	9	8	7	6	5								
	80			14	13	13	13	12	12	12	11	11	10	9	8	6	4	4									
Shut-off PSI		324	316	307	298	290	281	272	264	255	246	229	220	203	177	160	143	125	117	73							
3	0														14	13	13	12	12	11	9	7	5	Shut-off 1034 ft			
	20														14	13	13	12	12	10	8	6	3				
	30														14	13	13	12	12	11	10	8	5				
	40														14	14	13	12	12	11	11	9	7		4		
	50														14	14	14	13	12	12	11	11	9		7	4	
	60														14	14	14	13	12	12	11	11	10		9	6	3
	80														14	14	13	13	12	12	11	11	10		10	8	5
Shut-off PSI		438	430	421	413	404	395	387	378	369	361	343	335	317	291	274	257	240	231	188	144	101	58				
5	0					14	13	13	12	11	11	10	9	8	6	5								Shut-off 1648 ft			
	20					14	13	12	12	11	10	9	8	7	6	4											
	30					14	13	12	12	11	10	9	8	7	5	4											
	40					14	13	12	11	11	10	9	8	7	5	3											
	50					14	13	13	12	11	10	9	9	7	6	5	3										
	60					14	13	13	12	11	10	9	8	7	6	4											
	80			14	14	13	12	11	11	10	9	8	7	5	3												
Shut-off PSI		670	626	583	540	497	453	410	367	324	280	237	194	151	107												

- Notes: 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

4" Series V Pumps 15 gpm Performance



Submersible Pumps

4" Series V Pumps 15 gpm Performance

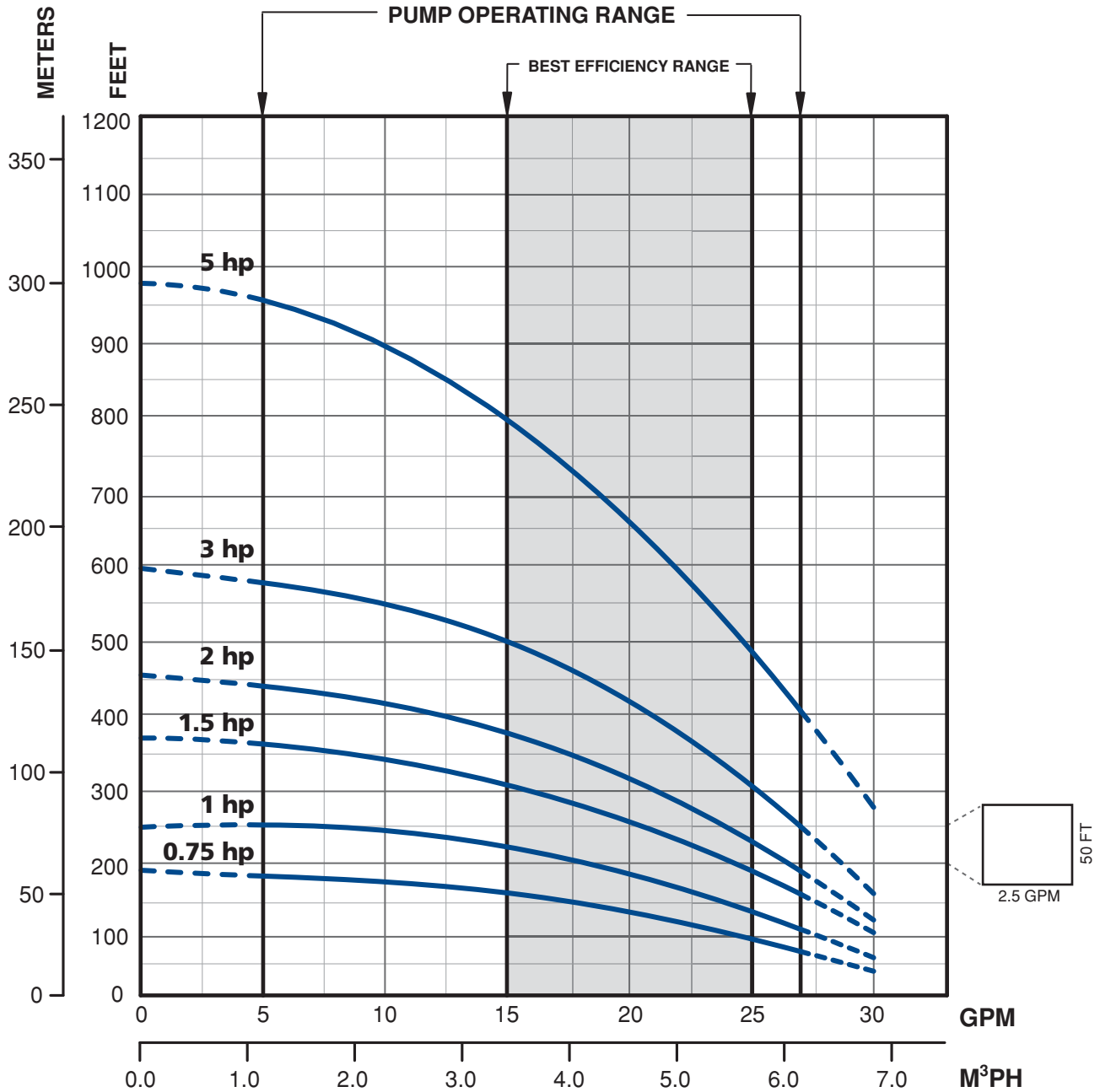
Capacities in U.S. Gallons per Minute:

HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																								
		20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	440		480	500	600	700	800	900	1000	1100
1/2	0			20	18	16	13	9	4																	
	20	19	17	15	12	8																				
	30	17	14	11	7																					
	40	14	11	6																						
	50	10	5																							
	60	4																								
	80																									
Shut-off PSI	65	56	48	39	30	22	13	4																		
3/4	0			20	19	18	16	15	13	11																
	20		20	19	17	16	14	12	10	7																
	30	20	18	17	16	14	12	10	6																	
	40	18	17	15	14	12	9	6																		
	50	17	15	13	11	9	5																			
	60	15	13	11	8	4																				
	80	10	7																							
Shut-off PSI	103	94	85	77	68	59	51	42	33	25																
1	0				20	19	18	17	16	15	13	11	7													
	20			20	19	18	17	16	15	14	12	10	6													
	30	20	20	19	18	17	16	15	14	12	10	6														
	40	19	19	18	17	16	15	13	12	10	8															
	50	18	18	17	16	14	13	12	10	8	5															
	60	17	16	15	14	13	11	10	7	4																
	80	15	14	12	11	9	6																			
Shut-off PSI	140	131	123	114	105	97	88	79	71	62	45	36	19													
1.5	0					20	20	19	19	18	17	16	14	11	8	4										
	20				20	20	19	18	18	17	16	15	14	12	7											
	30			20	20	19	18	18	17	16	15	14	13	10	5											
	40			20	19	19	18	18	17	16	15	13	11	9												
	50	20	19	19	18	17	17	16	15	14	13	11	10	7												
	60	19	19	18	17	17	16	15	14	13	12	10	8	4												
	80	18	17	16	16	15	14	13	12	11	9	6														
Shut-off PSI	193	185	176	167	159	150	141	133	124	115	98	89	72	46	29	11										
2	0						20	20	20	19	18	18	17	15	13	12	10	8								
	20					20	20	19	19	18	17	17	15	13	11	9	7	5								
	30					20	20	19	19	18	18	16	16	14	12	10	8	5								
	40			20	20	20	19	19	18	18	17	16	16	14	11	9	6									
	50			20	20	19	19	19	18	17	17	16	15	14	13	10	7	4								
	60	20	20	19	19	18	18	17	17	16	16	14	13	12	9	6										
	80	19	19	18	18	17	17	16	15	15	14	12	11	9	5											
Shut-off PSI	249	240	231	223	214	205	197	188	179	171	153	145	127	101	84	67	49	41								
3	0									20	20	20	19	19	18	17	16	15	15	12	8					
	20									20	20	20	19	19	18	17	16	15	14	13	10	5				
	30									20	20	20	19	19	18	18	16	15	14	13	13	9				
	40									20	20	20	19	19	18	18	17	16	15	14	13	12	8			
	50						20	20	20	19	19	19	18	18	17	15	14	13	12	11	7					
	60					20	20	20	19	19	19	18	17	17	16	15	14	12	11	10	5					
	80	20	20	20	20	19	19	19	18	18	17	16	16	15	13	12	11	9	8							
Shut-off PSI	339	330	321	313	304	295	287	278	269	261	243	235	217	191	174	157	139	131	87	44						
5	0													20	20	19	19	19	17	16	15	13	11	9	6	
	20													20	20	19	19	18	18	17	15	14	12	10	7	
	30													20	20	19	19	18	18	17	15	14	12	9	7	
	40													20	20	20	19	19	18	18	16	15	13	11	9	
	50													20	20	20	19	19	18	17	17	16	14	13	11	
	60													20	20	20	19	19	18	17	17	16	14	12	10	
	80							20	20	20	20	19	19	19	18	18	17	17	16	15	13	11	9	6	4	
Shut-off PSI	561	553	544	535	527	518	509	501	492	483	466	457	440	414	397	379	362	353	310	267	224	180	137	94		

- Notes: 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

4" Series V Pumps 20 gpm Performance



Submersible Pumps

4" Series V Pumps 20 gpm Performance

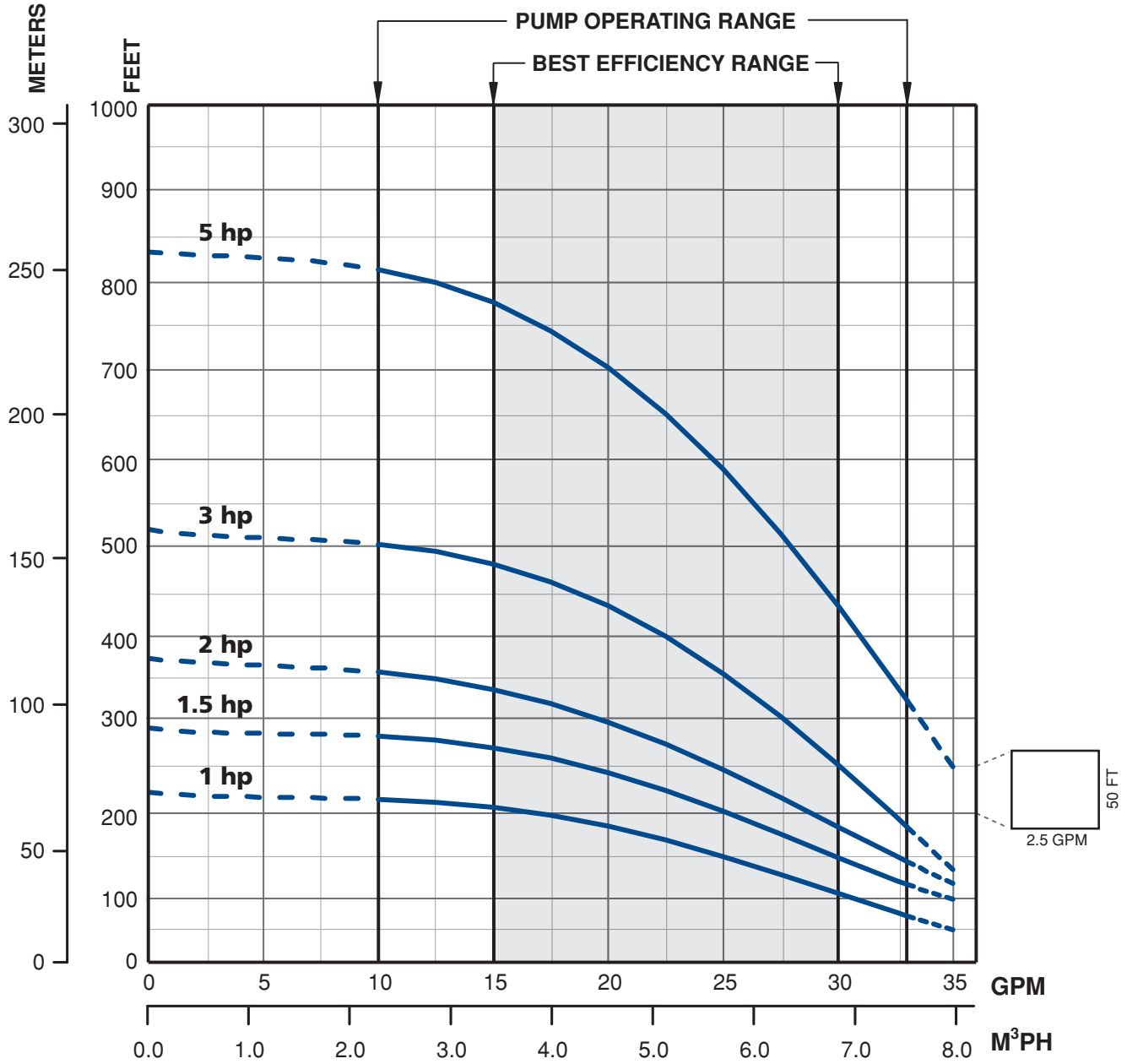
Capacities in U.S. Gallons per Minute:

HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																								
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																								
		20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	440	480	500	600	700	800	900	1000		
3/4	0				24	22	21	18	14																	Shut-off 190 ft
	20		23	21	19	17	12																			
	30	23	21	19	17	11																				
	40	21	19	17	10																					
	50	19	16	10																						
	60	14																								
Shut-off PSI		74	65	56	48	39	30	22	13																	
1	0				24	22	21	19	17																	Shut-off 262 ft
	20				24	22	20	19	16	13																
	30				24	22	20	19	16	12																
	40	24	23	22	20	18	16	12																		
	50	23	22	20	18	14	11																			
	60	21	19	17	14	10																				
80	16	13																								
Shut-off PSI		105	96	87	79	70	61	53	44	35	27															
1.5	0							27	26	24	21	19	16												Shut-off 368 ft	
	20							27	25	24	22	21	17	15	9											
	30						27	25	24	22	20	18	15	12												
	40			27	26	25	23	21	20	18	16	12	7													
	50		27	26	25	23	21	20	18	16	14	6														
	60	27	26	25	23	21	19	18	16	14	10															
80	24	22	21	19	17	15	13	9																		
Shut-off PSI		151	142	133	125	116	107	99	90	81	73	55	47	29												
2	0										24	23	20	16	12										Shut-off 453 ft	
	20										24	21	20	17	12											
	30										24	23	22	20	19	16										
	40								24	23	22	21	19	17	14											
	50						24	23	22	20	19	16	14	10												
	60					24	23	22	20	19	18	14	12													
80			24	23	21	20	19	18	16	14																
Shut-off PSI		187	179	170	161	153	144	135	127	118	110	92	84	66	40	23										
3	0											24	22	20	18	16	14								Shut-off 601 ft	
	20											24	23	20	17	15	12	10								
	30											24	23	21	18	16	13	10								
	40											24	23	22	20	17	14	11								
	50										24	24	22	21	19	16	13									
	60								24	24	23	21	20	18	14	10										
80							24	23	22	20	18	17	15	10												
Shut-off PSI		251	242	234	225	216	208	199	190	182	173	156	147	130	104	87	69	52	43							
5	0																	24	23	20	16				Shut-off 982 ft	
	20																	24	21	18	13					
	30																	24	23	20	17	11				
	40																	24	23	23	20	16	10			
	50																	24	22	22	17	15				
	60																24	23	22	21	18	14				
80															24	23	22	21	20	16	10					
Shut-off PSI		416	408	399	390	382	373	364	356	347	339	321	313	295	269	252	235	217	209	165	122	79				

Notes: 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

4" Series V Pumps 25 gpm Performance



Submersible Pumps

4" Series V Pumps 25 gpm Performance

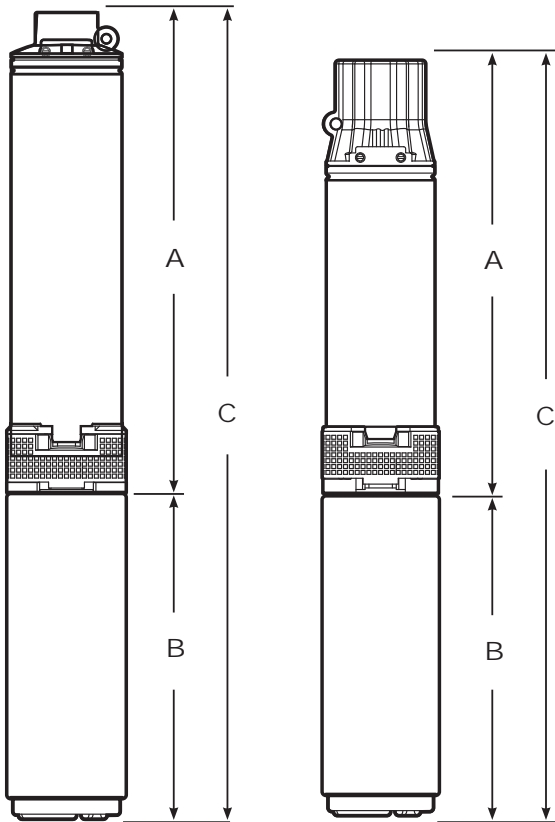
Capacities in U.S. Gallons per Minute:

HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																															
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																															
		20	40	60	80	100	120	140	160	180	200	240	260	300	360	400	440	480	500	600	700	800	900	1000									
1	0			35	33	31	28	26	24	21	17															Shut-off 222 ft							
	20			32	30	28	25	22	18	15																							
	30	32	29	27	25	22	19																										
	40	29	27	25	22	19																											
	50	26	24	21	16																												
	60	24	21	17																													
Shut-off PSI		87	79	70	61	53	44	35	27	18	10																						
1.5	0				32	30	28	26	24	22	19															Shut-off 297 ft							
	20				32	30	28	26	24	22	19																						
	30			32	30	28	26	24	22	19	16																						
	40	33	32	29	27	25	23	21	19	15																							
	50	32	29	27	25	23	21	18																									
	60	29	27	25	23	20	18																										
80	24	22	20	17																													
Shut-off PSI		120	111	103	94	85	77	68	59	51	42	25	16																				
2	0							33	32	30	28	25	24	20												Shut-off 375 ft							
	20							33	32	30	28	25	21	20																			
	30			34	33	31	29	28	26	24	23	19	17																				
	40		34	33	31	29	28	26	24	23	21	17																					
	50	33	32	30	29	27	26	24	22	20	18																						
	60	32	30	28	27	26	24	22	20	18																							
80	28	26	25	23	21	20	17																										
Shut-off PSI		154	145	136	128	119	110	102	93	84	76	58	50	32																			
3	0									33	32	30	29	28	24	22	19	15								Shut-off 519 ft							
	20									33	32	31	30	28	27	25	22	19															
	30										33	32	32	31	30	29	27	26	24	20													
	40											33	32	31	30	29	28	26	25	22	18												
	50												33	32	31	31	30	29	28	27	24	23	21	15									
	60													33	32	31	31	30	29	28	26	25	23	22	19								
80														33	32	31	30	29	28	27	26	25	24	20									
Shut-off PSI		216	207	199	190	181	173	164	155	147	138	121	112	95	69	52	34	17															
5	0															33	32	31	30	28	28	24	20			Shut-off 833 ft							
	20																33	32	30	30	28	27	26	22	17								
	30																	33	33	31	30	28	27	26	25		21	15					
	40																		33	32	32	31	29	28	27		25	24	20				
	50																			33	33	32	31	30	28		27	25	24	23	19		
	60																				33	33	32	31	31		30	28	26	25	23	22	18
80																					33	33	32	31	31	30	29	28	26	25	23	21	20
Shut-off PSI		352	343	326	317	309	300	291	283	274	257	248	231	205	187	170	153	144	101	58													

- Notes: 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

4" Series V Pumps Dimensions



Notes: All lengths are in inches
 All weights are in pounds
 Maximum diameter with cable guard is 3.90"
 PE - Pump end only
 PMA - Pump and motor assembly

Plastic with 2-Wire Motors

GPM	HP	STAGES	A	B	C	PE WT.	PMA WT.
5	1/2	8	14.29	9.51	23.80	6	23
	3/4	12	17.80	10.64	28.44	8	26
	1	15	20.28	11.73	32.01	9	27
	1.5	21	25.23	15.10	40.33	12	34
7	1/2	7	13.47	9.51	22.98	5	22
	3/4	10	15.95	10.64	26.59	7	25
	1	13	18.62	11.73	30.35	8	26
	1.5	18	22.77	15.10	37.87	11	33
10	1/2	6	13.13	9.51	22.64	5	22
	3/4	8	14.95	10.64	25.59	6	24
	1	11	17.88	11.73	29.61	7	28
	1.5	15	21.52	15.10	36.62	9	32
15	1/2	4	11.51	9.51	21.02	4	21
	3/4	6	13.13	10.64	23.77	5	23
	1	8	14.95	11.73	26.68	6	27
	1.5	11	17.68	15.10	32.78	7	30
20	3/4	5	13.79	10.64	24.43	8	23
	1	7	16.23	11.73	27.96	9	27
	1.5	10	19.91	15.10	35.01	10	41
25	1	6	15.01	11.73	26.74	8	30
	1.5	8	17.46	15.10	32.56	9	42

Plastic with 3-Wire Motors

GPM	HP	STAGES	A	B	C	PE WT.	PMA WT.
5	1/2	8	14.29	9.51	23.80	6	23
	3/4	12	17.80	10.64	28.44	8	26
	1	15	20.28	11.73	32.01	9	27
	1.5	21	25.23	13.60	38.83	12	34
7	1/2	7	13.47	9.51	22.98	5	22
	3/4	10	15.95	10.64	26.59	7	25
	1	13	18.62	11.73	30.35	8	26
	1.5	18	22.77	13.60	36.37	11	33
10	1/2	6	13.13	9.51	22.64	5	22
	3/4	8	14.95	10.64	25.59	6	24
	1	11	17.88	11.73	29.61	7	28
	1.5	15	21.52	13.60	35.12	9	32
15	1/2	4	11.51	9.51	21.02	4	21
	3/4	6	13.13	10.64	23.77	5	23
	1	8	14.95	11.73	26.68	6	27
	1.5	11	17.68	13.60	31.28	7	30
20	3/4	5	13.79	10.64	24.43	8	23
	1	7	16.23	11.73	27.96	9	27
	1.5	10	19.91	13.60	33.51	10	41
25	1	6	15.01	11.73	26.74	8	30
	1.5	8	17.46	13.60	31.06	9	42

Submersible Pumps

4" Series V Pumps Dimensions

Stainless Steel with 2-Wire Motors

GPM	HP	STAGES	A	B	C	PE WT.	PMA WT.
5	1/2	8	14.31	9.51	23.82	8	25
	3/4	12	17.62	10.64	28.26	10	28
	1	15	20.10	11.73	31.83	11	29
	1.5	21	25.06	15.10	40.16	13	35
7	1/2	7	13.49	9.51	23.00	7	24
	3/4	10	15.97	10.64	26.61	9	27
	1	13	18.45	11.73	30.18	10	28
	1.5	18	22.59	15.10	37.69	13	35
10	1/2	6	13.15	9.51	22.66	8	25
	3/4	8	14.97	10.64	25.61	9	27
	1	11	17.70	11.73	29.43	10	32
	1.5	15	21.34	15.10	36.44	13	35
15	1/2	4	11.33	9.51	20.84	7	21
	3/4	6	13.15	10.64	23.79	8	23
	1	8	14.97	11.73	26.70	9	27
	1.5	11	17.70	15.10	32.80	10	30
20	3/4	5	13.84	10.64	24.48	8	25
	1	7	16.30	11.73	28.03	9	31
	1.5	10	19.98	15.10	33.85	10	43
25	1	6	15.07	11.73	26.80	8	32
	1.5	8	17.52	15.10	32.62	9	44

Stainless Steel with 3-Wire Motors

GPM	HP	STAGES	A	B	C	PE WT.	PMA WT.
5	1/2	8	14.31	9.51	23.82	8	25
	3/4	12	17.62	10.64	28.26	10	26
	1	15	20.10	11.73	31.83	11	29
	1.5	21	25.06	13.60	38.66	13	35
	2	26	31.48	15.10	46.58	15	N/A
7	1/2	7	13.49	9.51	23.00	7	23
	3/4	10	15.97	10.64	26.61	9	26
	1	13	18.45	11.73	30.18	10	27
	1.5	18	22.59	13.60	36.19	13	34
	2	24	27.74	15.10	42.84	16	N/A
10	3/4	32	36.44	19.04	55.48	19	N/A
	1/2	6	13.15	9.51	22.66	8	25
	3/4	8	14.97	10.64	25.61	9	26
	1	11	17.70	11.73	29.43	10	31
	1.5	15	21.34	13.60	34.94	13	36
15	2	18	26.15	15.10	41.25	16	N/A
	3	24	31.81	19.04	50.85	17	N/A
	5	39	45.45	28.19	74.64	20	N/A
	1/2	4	11.33	9.51	20.84	7	25
	3/4	6	13.15	10.64	23.79	8	27
20	1	8	14.97	11.73	26.70	9	30
	1.5	11	17.70	13.60	31.30	10	33
	2	14	20.43	15.10	35.53	15	N/A
	3	19	27.09	19.04	46.13	16	N/A
	5	31	38.30	29.19	67.49	18	N/A
25	3/4	5	13.84	10.64	24.48	8	29
	1	7	16.30	11.73	28.03	9	31
	1.5	10	19.98	13.60	32.35	10	42
	2	12	22.45	15.10	37.55	12	N/A
	3	16	27.56	19.04	46.60	14	N/A
25	5	26	41.92	29.19	71.11	18	N/A
	1	6	15.07	11.73	26.80	8	32
	1.5	8	17.52	13.60	31.12	9	43
	2	10	19.98	15.10	35.08	10	N/A
	3	14	24.90	19.04	43.94	12	N/A
5	23	38.24	29.19	67.43	16	N/A	

Notes: All lengths are in inches
 All weights are in pounds
 Maximum diameter with cable guard is 3.90"
 PE - Pump end only
 PMA - Pump and motor assembly

Submersible Pumps

4" High Capacity Pumps

Features & Ordering Information



J-CLASS SandHandler

4" High Capacity

Features:

- 4 performance ranges - 35, 45, 60 and 90 gpm
- Stainless steel discharge head and motor bracket
- High flow impellers and stages are glass-filled Noryl® for maximum efficiency
- Ceramic shaft sleeve and rubber discharge bearing eliminates sand wear
- Intermediate bearing for increased shaft stability
- Floating eye and hub seals for improved performance and efficiency
- Stainless steel hex pump shaft, shell and shaft coupling
- High capacity upthrust assembly for protection during start-up and operation (45, 60 and 90 gpm models)
- Powered by Franklin corrosion-resistant 4" submersible motors
- 2" NPT discharge
- Check valve must be ordered separately. See page 78.

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Submersible Pumps

4" High Capacity Pumps Features & Ordering Information

Stainless Steel Units Ordering Information:

(See pgs. 2-3 for model number explanation)

1 - 10 HP 4" PUMP ENDS						
GPM	HP	STAGES	ORDERING INFO.		DIMENSIONS	WT.
			MODEL NO.	ORDER NO.	PUMP END ONLY	
35	1	6	35JS1S4-PE	92525807	15.00	9
	1.5	8	35JS15S4-PE	92525815	17.50	10
	2	10	35JS25S4-PE	92525823	20.00	11
	3	14	35JS3S4-PE	92525831	25.00	13
	5	22	35JS5S4-PE	92525849	35.00	17
	7.5	34	35JS7S4-PE	92525851	52.17	25
	10	42	35JS10S4-PE	92525853	62.23	31
45	1.5	6	45JS15S4-PE	92525856	21.00	15
	2	8	45JS2S4-PE	92525872	25.50	16
	3	11	45JS3S4-PE	92525898	32.25	19
	5	18	45JS5S4-PE	92525914	47.75	25
	7.5	26	45JS7S4-PE	92525922	65.25	33
	10	31	45JS10S4-PE	92525925	78.30	38
60	2	6	60JS2S4-PE	92525930	21.00	15
	3	8	60JS3S4-PE	92525948	25.50	17
	5	13	60JS5S4-PE	92525963	36.75	21
	7.5	17	60JS7S4-PE	92525971	45.25	25
	10	24	60JS10S4-PE	92525989	61.00	31
90	2	5	90JS2S4-PE	92526003	22.56	15
	3	7	90JS3S4-PE	92526011	28.56	17
	5	12	90JS5S4-PE	92526037	43.56	21
	7.5	19	90JS7S4-PE	92526045	64.50	27

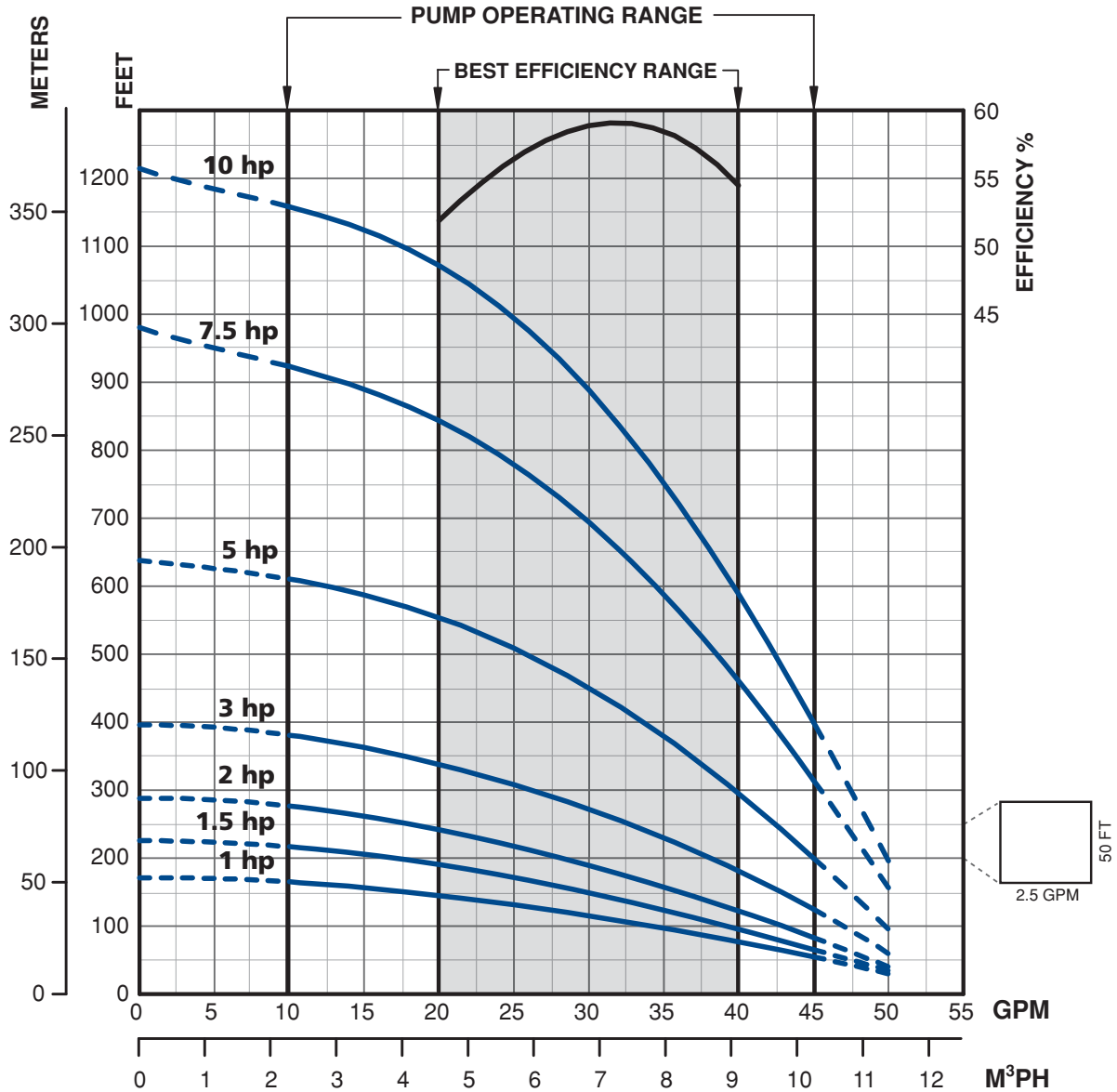
Note: All dimensions are in inches. Discharge is 2" NPT. Maximum diameter across cable guard is 3.90" on all models. All weights in pounds.

1 - 1.5 HP SINGLE-PHASE UNITS									
GPM	HP	STAGES	VOLTS	2-WIRE			3-WIRE		
				MODEL NO.	ORDER NO.	WT.	MODEL NO.	ORDER NO.	WT.
35	1	6	230	35JS1S4-2W230	92526128	33	35JS1S4-3W230	92526052	33
	1.5	8	230	35JS15S4-2W230	92526136	41	35JS15S4-3W230	92526060	39
45	1.5	6	230	45JS15S4-2W230	92526144	46	45JS15S4-3W230	92526086	44

Note: All listed above have 2" NPT discharge. Order check valve separately. Pump and motor will be individually cartoned and require assembly. All weights in pounds.

Submersible Pumps

4" High Capacity Pumps 35 gpm Performance



Capacities in U.S. Gallons per Minute:

HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																		
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																		
		20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	
1	0			44	40	34	28	22	13											
	10		43	39	33	27	21	11												
	20	43	38	32	26	20														
	30	37	31	26	19															
	40	30	25	18																
	50	24	16																	
	60	14																		
	70																			
	80																			
Shut-off PSI		65	57	48	39	31	22	13	5											

Shut-off 171 ft

Submersible Pumps

4" High Capacity Pumps 35 gpm Performance

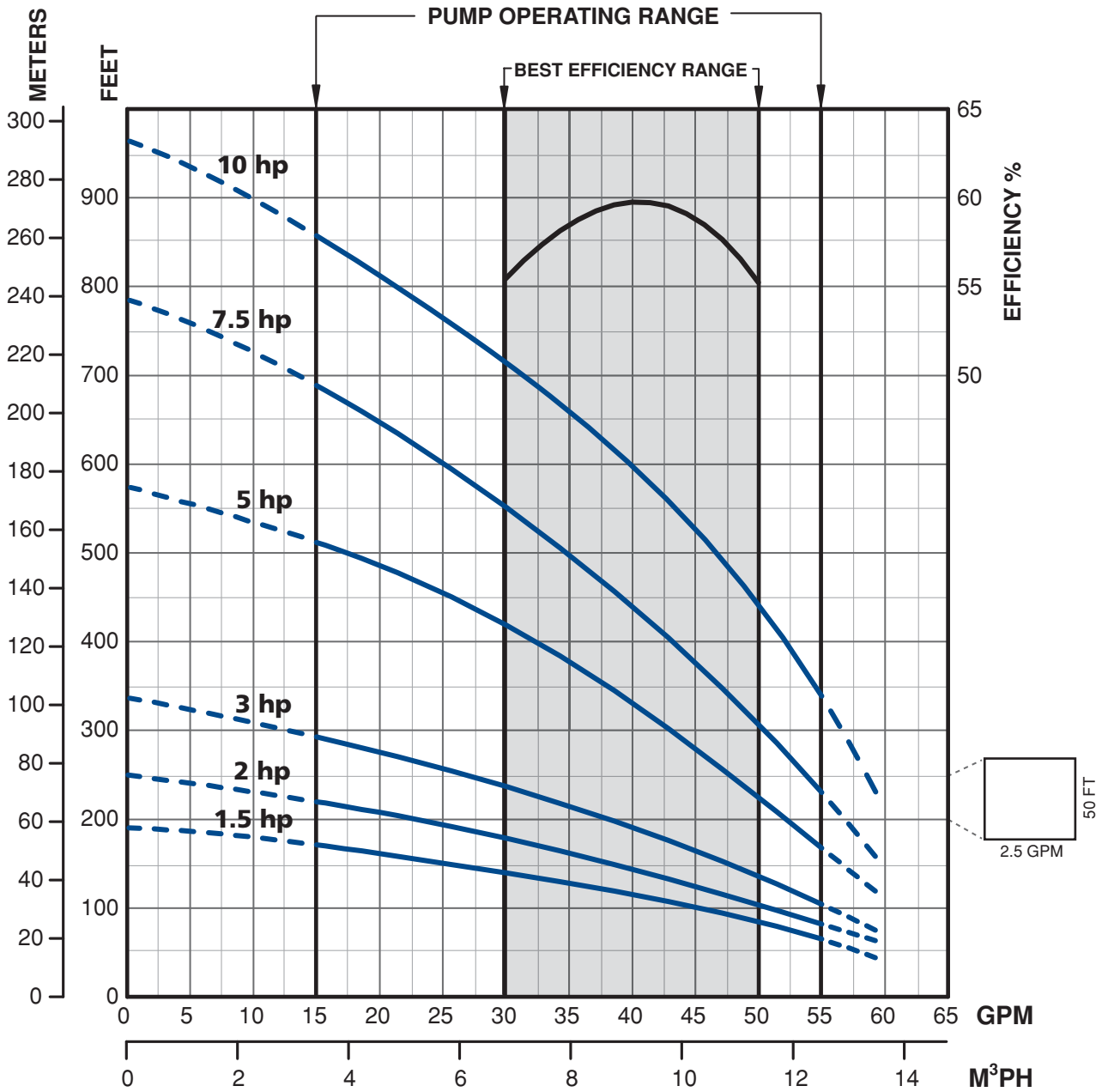
HP	PSI	20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600		
1.5	0			45	43	40	36	31	27	23	18										
	10		45	42	39	35	31	27	23	16											
	20	45	42	38	34	30	26	22	15												
	30	41	38	34	30	26	21	14													
	40	37	33	29	25	20	12														
	50	32	29	24	19	10															
	60	28	24	18																	
	70	23	17																		
	80	16																			
Shut-off PSI		89	81	72	63	55	46	37	29	20	11										
2	0			45	43	41	38	34	31	28	19										
	10			45	43	40	37	34	31	27	24	11									
	20		45	43	40	37	33	30	27	24	20										
	30	44	42	39	36	33	30	26	23	19	12										
	40	42	39	36	32	29	26	22	18	11											
	50	39	35	32	29	25	22	17	10												
	60	35	31	28	25	21	16														
	70	31	28	24	21	15															
	80	27	24	20	14																
Shut-off PSI		116	107	99	90	81	73	64	55	47	38	16									
3	0					45	44	42	41	38	32	28	18								
	10					45	44	42	40	38	36	29	23	12							
	20				45	44	42	40	38	35	33	27	19								
	30			45	43	42	40	37	35	32	30	24	13								
	40		44	43	41	39	37	34	32	29	27	20									
	50	44	43	41	39	37	34	32	29	27	24	14									
	60	43	41	39	36	34	31	29	26	24	21										
	70	40	38	36	33	31	28	26	23	20	15										
	80	38	35	33	30	28	25	23	19	15											
Shut-off PSI		163	154	145	137	128	120	111	102	94	85	63	42	20							
5	0									45	43	40	37	33	30	26	21	12			
	10									45	44	42	39	35	32	28	24	18			
	20							45	45	44	43	40	37	34	30	26	21	13			
	30						45	45	44	43	42	39	35	32	28	24	18				
	40					45	44	44	43	42	41	37	34	30	27	22	14				
	50				45	44	44	43	42	40	39	36	32	29	25	19					
	60			45	44	43	42	41	40	39	38	34	31	27	22	15					
	70		45	44	43	42	41	40	39	37	36	32	29	25	19						
	80	45	44	43	42	41	40	38	37	36	34	31	27	23	15						
Shut-off PSI		268	259	250	242	233	224	216	207	198	190	168	146	125	103	81	60	38	16		
7.5	0								44	42	40	38	36	34	32	30	27	24	19	13	
	10							45	43	41	39	38	36	33	31	29	26	22	17	10	
	20							44	42	40	39	37	35	32	30	27	24	20	14		
	30					45	43	41	40	38	36	34	31	29	26	22	17	11			
	40					44	42	41	39	37	35	33	30	27	24	20	14				
	50				45	43	42	40	38	36	34	32	29	25	22	18	11				
	60			45	44	43	41	39	37	35	33	30	28	24	20	15					
	70		45	45	44	43	42	40	38	36	34	32	29	26	23	18	12				
	80	45	45	44	43	43	41	39	37	35	33	31	28	25	21	15					
Shut-off PSI		373	364	355	347	338	316	295	274	251	230	208	186	165	143	121	100	78	56	35	
10	0				45	44	43	41	40	38	36	35	33	31	30	28	25	22	17	11	
	10				45	43	42	41	39	37	36	34	32	31	29	26	24	20	15		
	20			45	44	43	41	40	38	37	35	33	32	30	28	25	22	18	12		
	30			45	43	42	41	39	38	36	34	32	31	29	27	24	20	15			
	40		45	44	43	41	40	38	37	35	33	32	30	28	25	22	18	12			
	50			45	44	42	41	39	38	36	34	33	31	29	27	24	20	16			
	60		45	44	43	42	40	39	37	35	34	32	30	28	26	23	18	13			
	70		45	44	42	41	39	38	36	34	33	31	29	27	24	21	16				
	80	45	44	43	42	40	38	37	35	34	32	30	28	26	23	19	13				
Shut-off PSI		439	418	396	374	353	331	309	288	266	245	223	201	180	158	136	115	93	71	50	28

Notes: 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

4" High Capacity Pumps

45 gpm Performance



Submersible Pumps

4" High Capacity Pumps 45 gpm Performance

Capacities in U.S. Gallons per Minute:

HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																		
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																		
		20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650
1.5	0				52	46	38	30	21											
	10		55	51	45	37	26	20												
	20	54	50	43	35	27	18													
	30	49	42	34	26	16														
	40	41	33	24	15															
	50	32	23																	
	60	22																		
Shut-off PSI		74	65	56	48	39	30	22	13											
2	0				55	51	46	41	36	30	23									
	10			55	50	45	40	35	29	22										
	20		54	49	44	39	34	28	21											
	30	53	49	44	38	33	27	19												
	40	48	43	38	32	26	18													
	50	42	37	31	24	17														
	60	36	30	23	16															
Shut-off PSI		99	91	82	74	65	56	48	39	30	22									
3	0						53	49	46	42	38	27								
	10				55	52	49	45	41	37	33	21								
	20			55	52	48	45	41	37	32	26									
	30		54	51	48	44	40	36	32	27	22									
	40	54	51	47	44	40	35	31	26	21	15									
	50	50	47	43	39	35	30	25	20											
	60	46	42	38	34	30	25	19												
	70	42	38	33	29	24	18													
	80	37	33	28	23	17														
	90	32	27	22	16															
100	27	21	16																	
Shut-off PSI		137	129	120	111	103	94	85	77	68	60	38								
5	0									54	52	48	43	38	32	26	17			
	10								55	54	52	50	46	41	36	30	22			
	20						55	53	52	50	48	43	38	33	26	18				
	30					55	53	51	50	48	46	41	36	30	23					
	40				55	53	51	49	47	46	44	39	33	27	19					
	50			54	53	51	49	47	45	43	42	36	31	23						
	60		54	52	51	49	47	45	43	41	39	34	27	19						
	70	54	52	50	48	47	45	43	41	39	37	31	24	15						
	80	52	50	48	46	44	43	41	39	36	34	28	20							
	90	50	48	46	44	42	40	38	36	34	31	25	16							
	100	48	46	44	42	40	38	36	34	31	28	21								
	110	45	44	42	40	38	35	33	31	28	25	17								
	120	43	41	39	37	35	33	30	28	25	21									
	130	41	39	37	35	32	30	27	24	21	17									
	140	39	37	34	32	29	27	24	20	17										
	150	36	34	32	29	26	23	20	16											
	160	28	25	22	18															
Shut-off PSI		240	232	223	214	206	197	188	180	171	162	141	119	97	76	54	32			

- Notes:**
1. Performance shown does not include friction loss in the drop pipe.
 2. All performance data is based on rated motor nameplate voltage.
 3. Performances for former XP models are the same as 45 gpm models.

Continued on next page...

Submersible Pumps

4" High Capacity Pumps 45 gpm Performance

Capacities in U.S. Gallons per Minute:

HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																		
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																		
		20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650
7.5	0											54	51	47	43	39	35	30	25	20
	10										55	52	49	45	41	37	33	28	23	17
	20									55	54	51	47	44	39	35	30	26	20	
	30									55	54	53	49	46	42	37	33	28	23	17
	40								55	54	52	51	48	44	40	35	31	26	21	15
	50							55	53	52	51	49	46	42	38	33	29	24	18	
	60					54	53	52	51	49	48	44	40	36	31	26	21	15		
	70			55	54	53	52	50	49	48	46	42	38	34	29	24	18			
	80		55	54	53	52	50	49	47	46	44	40	36	32	27	21	16			
	90	55	54	53	51	50	49	47	46	44	43	38	34	29	24	19				
	100	54	52	51	50	48	47	45	44	42	41	36	32	27	22	16				
	110	52	51	50	48	47	45	44	42	40	39	34	30	25	19					
	120	51	49	48	47	45	43	42	40	39	37	32	27	22	17					
	130	49	48	46	45	43	42	40	38	37	35	30	25	20						
	140	48	46	45	43	41	40	38	36	34	33	28	23	17						
	150	46	44	43	41	39	38	38	34	32	30	26	20							
	160	40	39	37	35	33	31	30	28	26	24	18								
Shut-off PSI		331	323	314	305	297	288	279	271	262	254	232	210	189	167	145	124	102	80	59

Shut-off 786 ft

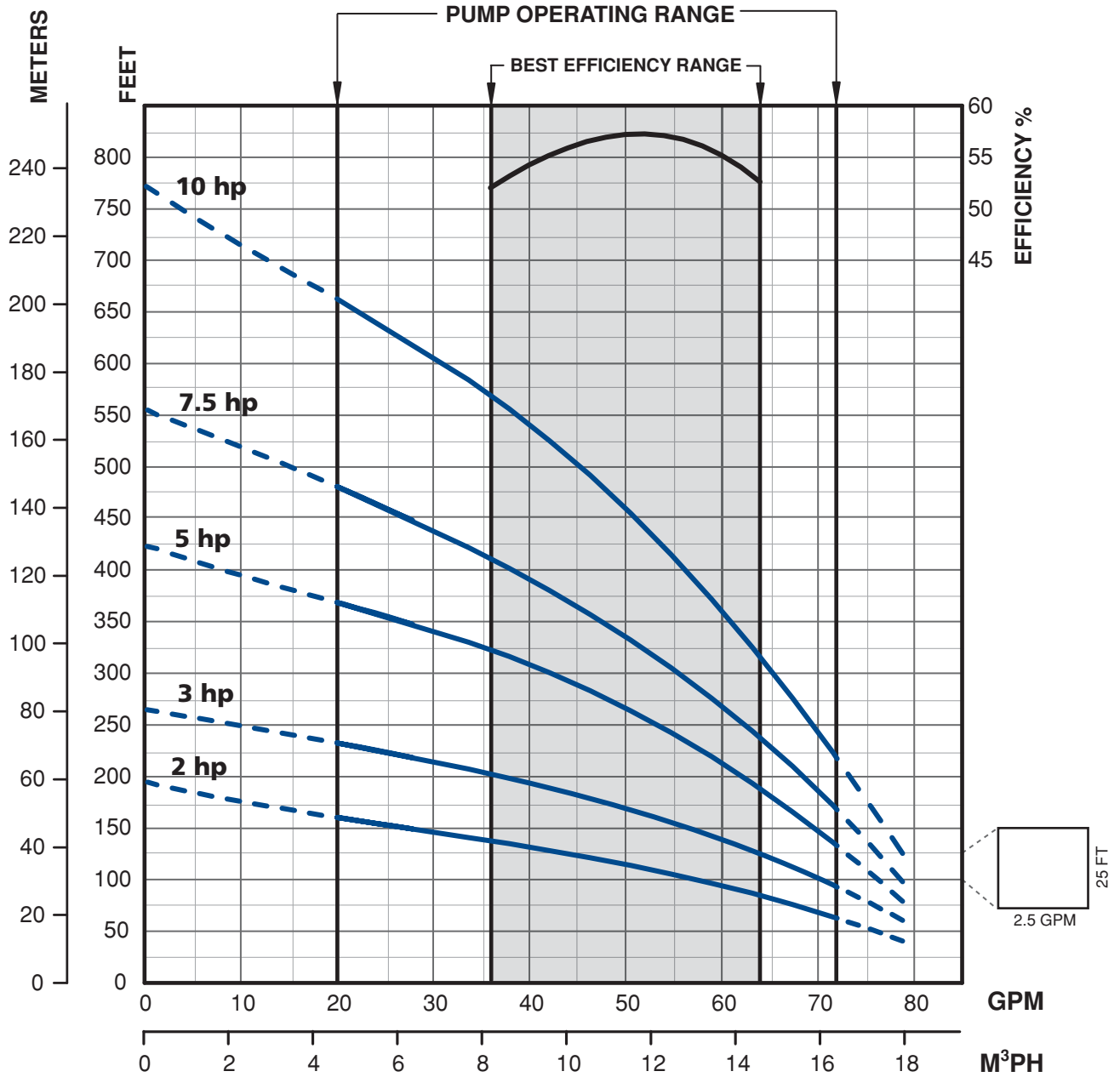
HP	PSI	20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750	800	850
10	0												54	52	50	47	43	40	36	31	27	21	16	
	10												55	53	51	48	45	42	38	34	29	24	19	
	20												55	52	50	47	44	40	36	32	27	22	16	
	30												54	51	49	46	42	38	34	29	25	19		
	40											55	53	50	47	44	40	36	32	27	22	17		
	50											54	51	49	46	42	39	34	30	25	20			
	60										55	53	50	47	44	41	37	32	28	23	17			
	70									55	54	52	49	46	43	39	35	30	25	20	15			
	80						55	54	53	52	51	48	45	41	37	33	28	23	18					
	90						55	54	54	53	52	49	46	43	39	35	31	26	21	15				
	100						55	54	54	53	52	51	48	45	41	37	33	28	23	18				
	110					55	54	53	53	52	51	49	47	43	39	35	31	26	21	15				
	120				55	54	53	52	51	50	49	48	45	41	38	33	29	24	19					
	130			55	54	53	52	51	50	49	48	47	43	40	36	31	27	21	16					
	140	55	54	53	52	51	50	49	48	47	45	42	38	34	29	24	19							
	150	54	53	51	51	50	49	48	46	45	44	40	36	32	27	22	16							
	160	50	49	48	47	46	44	43	42	40	38	34	30	25	20									
Shut-off PSI		409	400	392	383	374	366	357	348	340	331	309	288	266	244	223	201	179	158	136	115	93	71	50

Shut-off 965 ft

- Notes:**
1. Performance shown does not include friction loss in the drop pipe.
 2. All performance data is based on rated motor nameplate voltage.
 3. Performances for former XP models are the same as 45 gpm models.

Submersible Pumps

4" High Capacity Pumps
60 gpm Performance



Submersible Pumps

4" High Capacity Pumps

60 gpm Performance

Capacities in U.S. Gallons per Minute:

HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																	
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																	
		20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	
2	0				66	57	47	35	21										Shut-off 195 ft
	10			65	56	45	33	18											
	20	71	63	54	43	30													
	30	62	52	41	28														
	40	51	40	26															
	50	38	24																
	60	22																	
Shut-off PSI		76	67	58	50	41	32	24	15										
3	0					70	66	60	53	46	37							Shut-off 265 ft	
	10				69	65	59	62	44	35	25								
	20		73	69	64	56	51	43	34	24									
	30	72	68	63	57	50	42	32	22										
	40	67	62	56	49	40	31	20											
	50	61	55	48	39	29													
	60	54	46	37	28														
Shut-off PSI		106	97	89	80	71	63	54	45	37	28								
5	0							71	68	65	62	54	42	27				Shut-off 425 ft	
	10						70	68	65	62	59	49	36						
	20					70	67	64	61	58	54	43	28						
	30			72	69	67	64	61	57	54	50	37	20						
	40		72	69	68	63	60	57	53	49	44	29							
	50	71	69	66	63	60	56	53	48	43	38	21							
	60	68	65	62	59	56	52	48	43	37	31								
	70	65	62	59	55	51	47	42	36	30	23								
	80	61	58	55	51	46	41	35	28	21									
	90	58	54	50	45	40	34	27	20										
	100	54	49	45	39	33	26												
Shut-off PSI		175	167	158	149	141	132	123	115	106	97	76	54	32					

- Notes:**
1. Performance shown does not include friction loss in the drop pipe.
 2. All performance data is based on rated motor nameplate voltage.
 3. Performances for former XP models are the same as 60 gpm models.

Submersible Pumps

4" High Capacity Pumps 60 gpm Performance

Capacities in U.S. Gallons per Minute:

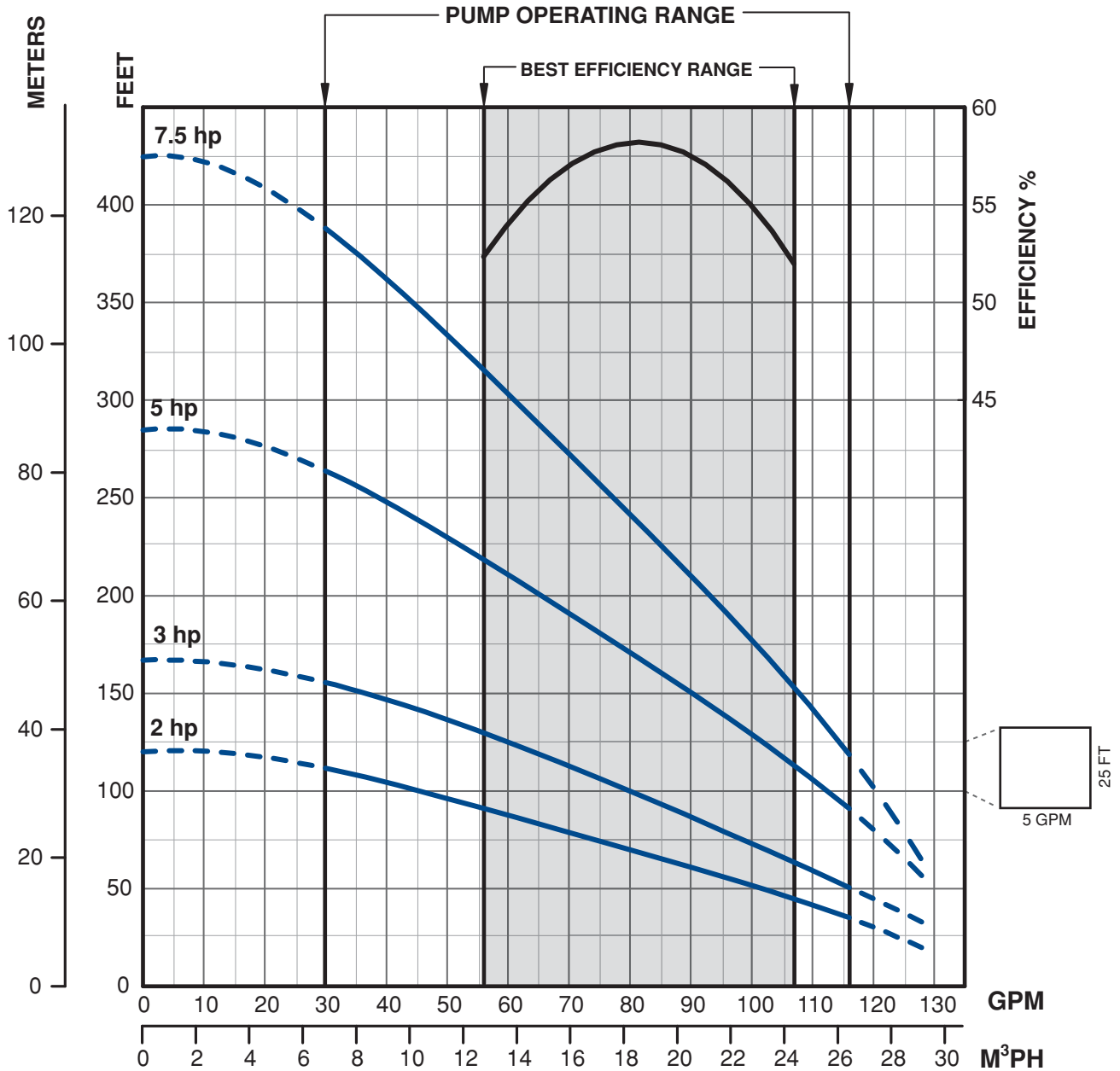
HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																			
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																			
		20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	
7.5	0									71	68	63	56	48	38	27					
	10							72	70	68	66	59	52	43	33	22					
	20						72	70	68	65	63	56	48	39	28						
	30					72	70	67	65	63	60	53	44	34	23						
	40				71	69	67	65	62	60	57	49	40	29							
	50			71	69	67	64	62	59	56	53	45	35	24							
	60		71	69	66	64	61	59	56	53	49	40	30								
	70	70	68	66	64	61	58	55	52	48	45	36	25								
	80	68	66	63	61	58	55	52	48	45	41	31									
	90	65	63	60	57	54	51	48	44	41	37	26									
	100	62	60	57	54	51	47	44	40	36	32	20									
	110	59	57	53	50	47	43	39	35	31	26										
	120	56	53	50	46	43	39	35	30	26	21										
	130	52	49	46	42	38	34	30	25	20											
	140	49	45	41	37	33	29	24	19												
	150	45	41	37	33	28	24														
	160	31	26	21																	
Shut-off PSI		232	223	214	206	197	188	180	171	162	154	132	110	89	67	45					
10	0										69	65	61	57	51	45	39	31	22		
	10									71	67	63	59	54	49	42	35	27			
	20							72	71	69	66	61	57	52	46	39	31	23			
	30							72	71	69	68	64	59	55	49	43	36	28			
	40						72	70	69	67	66	62	57	52	46	40	32	24			
	50					72	70	69	67	66	64	60	55	50	43	36	28				
	60				72	70	68	67	65	64	62	58	53	47	40	33	24				
	70			71	70	68	67	65	64	62	60	55	50	44	37	29	20				
	80		71	70	68	66	65	63	62	60	58	53	47	41	33	25					
	90	71	69	68	66	65	63	61	60	58	56	51	44	37	29	21					
	100	69	68	66	64	63	61	59	57	56	53	48	41	34	26						
	110	67	66	64	62	61	59	57	55	53	51	45	38	30	22						
	120	65	64	62	61	59	57	55	53	51	48	42	34	26							
	130	64	62	60	58	57	55	52	51	48	45	39	31	22							
	140	62	60	58	56	54	52	50	48	45	42	35	27								
	150	60	58	56	54	52	50	47	45	42	39	31	23								
	160	53	51	48	46	43	41	38	35	31	28										
Shut-off PSI		326	317	308	300	291	282	274	265	256	248	226	204	183	161	139	118	96	74	53	

- Notes:**
1. Performance shown does not include friction loss in the drop pipe.
 2. All performance data is based on rated motor nameplate voltage.
 3. Performances for former XP models are the same as 60 gpm models.

Submersible Pumps

4" High Capacity Pumps

90 gpm Performance



Submersible Pumps

4" High Capacity Pumps 90 gpm Performance

Capacities in U.S. Gallons per Minute:

HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																	
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																	
		20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	
2	0		113	92	67	48													Shut-off 120 ft
	10	110	88	64	45														
	20	84	61	40															
	30	58	35																
	40																		
	50																		
	60																		
Shut-off PSI		43	35	26	17	9													
3	0			110	96	79	64	49											Shut-off 167 ft
	10		108	93	76	61	46												
	20	106	90	74	59	43													
	30	88	71	57	39														
	40	69	55	35															
	50	53	30																
	60																		
Shut-off PSI		64	55	46	38	29	20	12											
5	0					113	106	96	85	74	64	41							Shut-off 285 ft
	10				112	104	94	83	72	63	55								
	20			111	103	92	81	71	62	53	44								
	30		110	101	91	80	69	60	52	42									
	40	100	100	89	78	68	59	51	40										
	50	98	87	76	66	58	49	38											
	60	85	75	65	56	48	35												
	70	73	63	55	46	33													
	80	62	54	45	30														
	90	53	43																
	100	41																	
Shut-off PSI		115	106	97	89	80	71	63	54	45	37	15							
7.5	0						116	112	107	101	94	76	60	46					Shut-off 425 ft
	10					115	111	108	100	93	86	68	54	38					
	20				115	110	105	99	92	85	77	61	47						
	30			114	109	104	98	91	83	76	70	55	40						
	40		113	109	103	96	90	82	75	69	62	49							
	50	113	108	102	95	88	81	74	68	61	56	41							
	60	107	101	94	87	80	73	67	61	55	50	31							
	70	100	93	86	79	72	66	60	54	49	42								
	80	92	85	78	71	65	59	53	48	41	33								
	90	84	77	70	64	58	53	47	40	31									
	100	76	69	63	57	52	46	39											
	110	68	62	56	51	45	38												
	120	61	55	50	44	36													
	130	55	49	43	35														
	140	48	42	33															
	150	41	32																
	160																		
Shut-off PSI		175	167	158	149	141	132	123	115	106	97	76	54	32					

- Notes:** 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

6" High Capacity Pumps

Features & Ordering Information

J-CLASS

SandHandler



6" High Capacity Pumps

Ideal for farm, home, irrigation, industry, municipal and commercial applications, equipped with the power, performance and reliability you expect from Franklin Electric.

Flow ratings of 50, 75, 100 and 125 gpm with TDH up to 1200 ft. Horsepower ranges from 1-1/2 to 40 hp.

Features:

- Heavy-duty stainless steel discharge head and motor bracket
- Stainless steel shaft, shell, intake screen and cable guard provides corrosion resistance and longer pump life
- Glass-filled Noryl® impeller stage assemblies provide exceptional strength and durability
- Ceramic shaft sleeve and rubber discharge bearing minimize bearing wear and shaft misalignment
- 3" NPT heavy-duty stainless steel discharge head
- Modular motor bracket enabling 4" or 6" motor mount for 5-10 horsepower units
- One-year unconditional warranty against failure from sand locking in abrasive well conditions

Noryl® is a registered trademark of G.E.

Submersible Pumps

6" High Capacity Pumps Features & Ordering Information

Stainless Steel Ordering Information:

(See pgs. 2-3 for model number explanation)

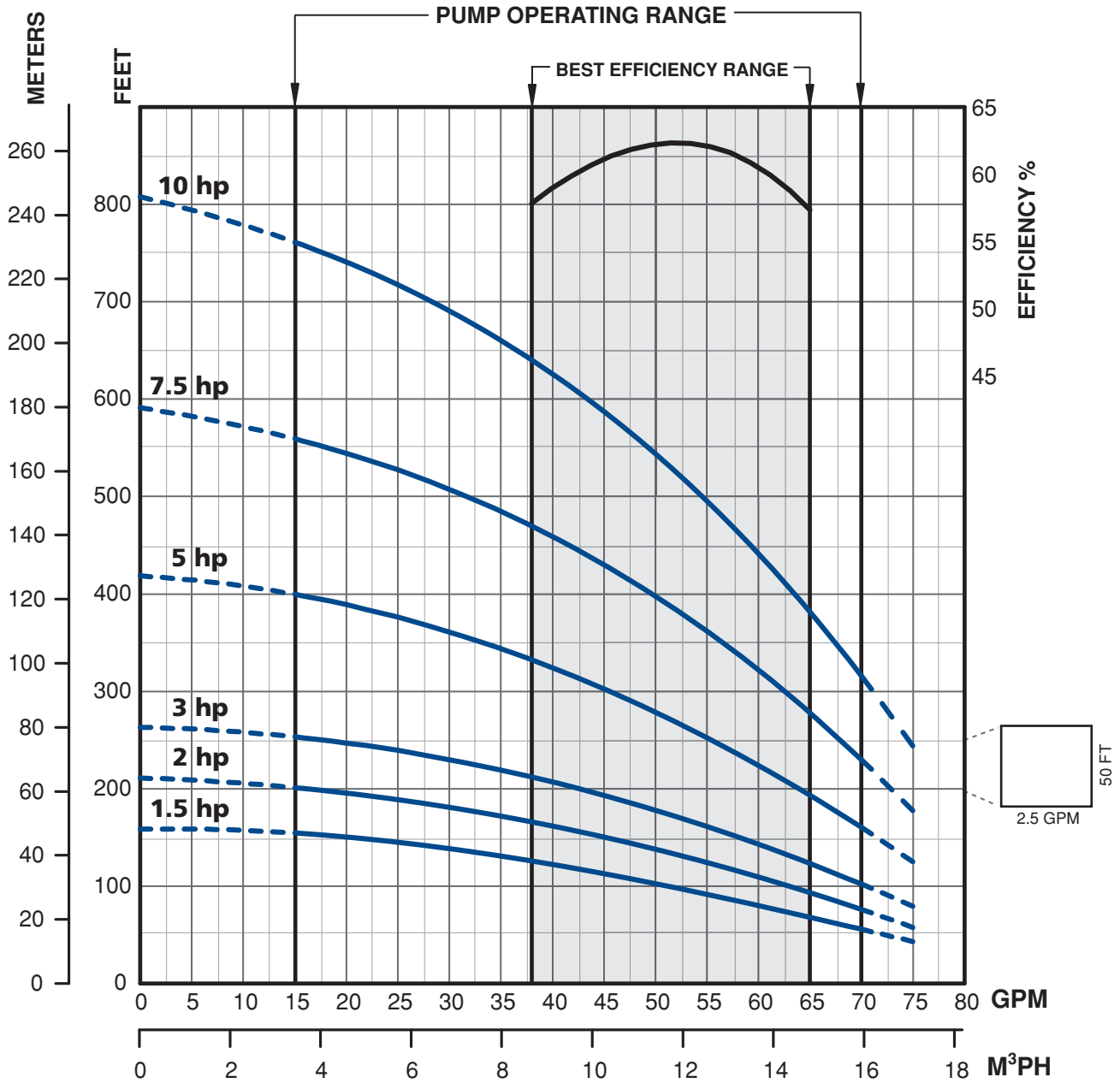
1.5 - 25 HP 6" PUMP ENDS							
GPM	HP	STAGES	MOTOR FIT	ORDERING INFO.		DIMENSIONS	WT.
				MODEL NO.	ORDER NO.	PEA	
50	1.5	3	4"	50JS15S6-PE	94815003	13.51	30
	2	4	4"	50JS2S6-PE	94815004	15.13	31
	3	5	4"	50JS3S6-PE	94815005	16.76	32
	5	8	4" & 6"	50JS5S6-PE	94815008	26.63	36
	7.5	11	4" & 6"	50JS7S6-PE	94815011	26.51	40
	10	15	4" & 6"	50JS10S6-PE	94815015	32.94	46
75	3	3	4"	75JS3S6-PE	94817503	13.51	30
	5	5	4" & 6"	75JS5S6-PE	94817505	16.76	32
	7.5	7	4" & 6"	75JS7S6-PE	94817507	20.01	35
	10	9	4" & 6"	75JS10S6-PE	94817509	23.26	38
	15	13	6"	75JS15S6-PE	94817513	29.76	43
	20	17	6"	75JS20S6-PE	94817517	36.19	48
100	25	23	6"	75JS25S6-PE	94817523	46	54
	5	3	4" & 6"	100JS5S6-PE	94810003	14.62	32
	7.5	5	4" & 6"	100JS7S6-PE	94810005	18.51	32
	10	6	4" & 6"	100JS10S6-PE	94810006	20.49	34
	15	9	6"	100JS15S6-PE	94810009	26.31	38
	20	13	6"	100JS20S6-PE	94810013	34.07	43
125	25	16	6"	100JS25S6-PE	94810016	39.94	47
	5	2	4" & 6"	125JS5S6-PE	94812502	12.94	29
	7.5	3	4" & 6"	125JS7S6-PE	94812503	15.05	30
	10	4	4" & 6"	125JS10S6-PE	94812504	17.13	31
	15	7	6"	125JS15S6-PE	94812507	23.37	35
	20	9	6"	125JS20S6-PE	94812509	27.54	38
	25	11	6"	125JS25S6-PE	94812511	31.70	40
	30	13	6"	125JS30S6-PE	94812513	35.87	43
40	18	6"	125JS40S6-PE	94812518	46.27	48	

Note: All dimensions are in inches. Discharge is 3" NPT. Maximum diameter across cable guard is 5.5" on all models. Weight in pounds.

Submersible Pumps

6" High Capacity Pumps

50 gpm Performance



Submersible Pumps

6" High Capacity Pumps 50 gpm Performance

Capacities in U.S. Gallons per Minute:

HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																		
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																		
		20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550		
1.5	0			68	61	51	41	30											Shut-off 158 ft	
	20	66	58	47	38	25														
	30	56	46	37	21															
	40	44	35	16																
	50	33																		
Shut-off PSI		60	51	43	34	25	17	8												
2	0				69	63	57	49	41	31	16							Shut-off 211 ft		
	20		67	62	54	46	38	27												
	30	67	60	53	45	37	25													
	40	59	52	44	35	23														
	50	51	42	34	20															
Shut-off PSI		83	74	65	57	48	39	31	22	13	5									
3	0					70	66	61	55	49	42	17						Shut-off 263 ft		
	20			69	65	60	53	47	40	33	21									
	30		68	64	59	52	46	39	31	18										
	40	68	63	58	51	45	38	30	15											
	50	63	57	50	44	37	28													
Shut-off PSI		105	97	88	79	71	62	53	45	36	27	6								
5	0								70	67	64	55	45	34				Shut-off 418 ft		
	20						69	66	63	60	56	46	35	16						
	30					69	66	63	59	56	51	41	28							
	40				68	66	62	59	55	51	47	36	18							
	50		70	68	65	62	58	54	50	46	42	29								
Shut-off PSI		173	164	155	147	138	129	121	112	103	95	73	51	30						
7.5	0											68	63	57	49	42	32	18	Shut-off 591 ft	
	20									70	68	63	57	50	42	33	19			
	30								70	68	66	60	54	47	38	27				
	40								70	68	66	64	58	51	43	34	21			
	50							69	67	65	63	61	54	47	39	28				
Shut-off PSI		247	239	230	221	213	204	195	187	178	169	148	126	104	83	61	39	18		
HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																		
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																		
		100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750		
10	0										68	64	59	54	49	43	37	28	18	Shut-off 808 ft
	20									68	64	60	55	50	44	37	29	19		
	30								70	66	62	57	52	47	41	34	25			
	40								68	64	60	55	50	44	38	30	20			
	50							70	66	62	58	53	47	41	34	26				
Shut-off PSI		306	298	289	281	272	263	242	220	198	177	155	133	112	90	68	47	25		

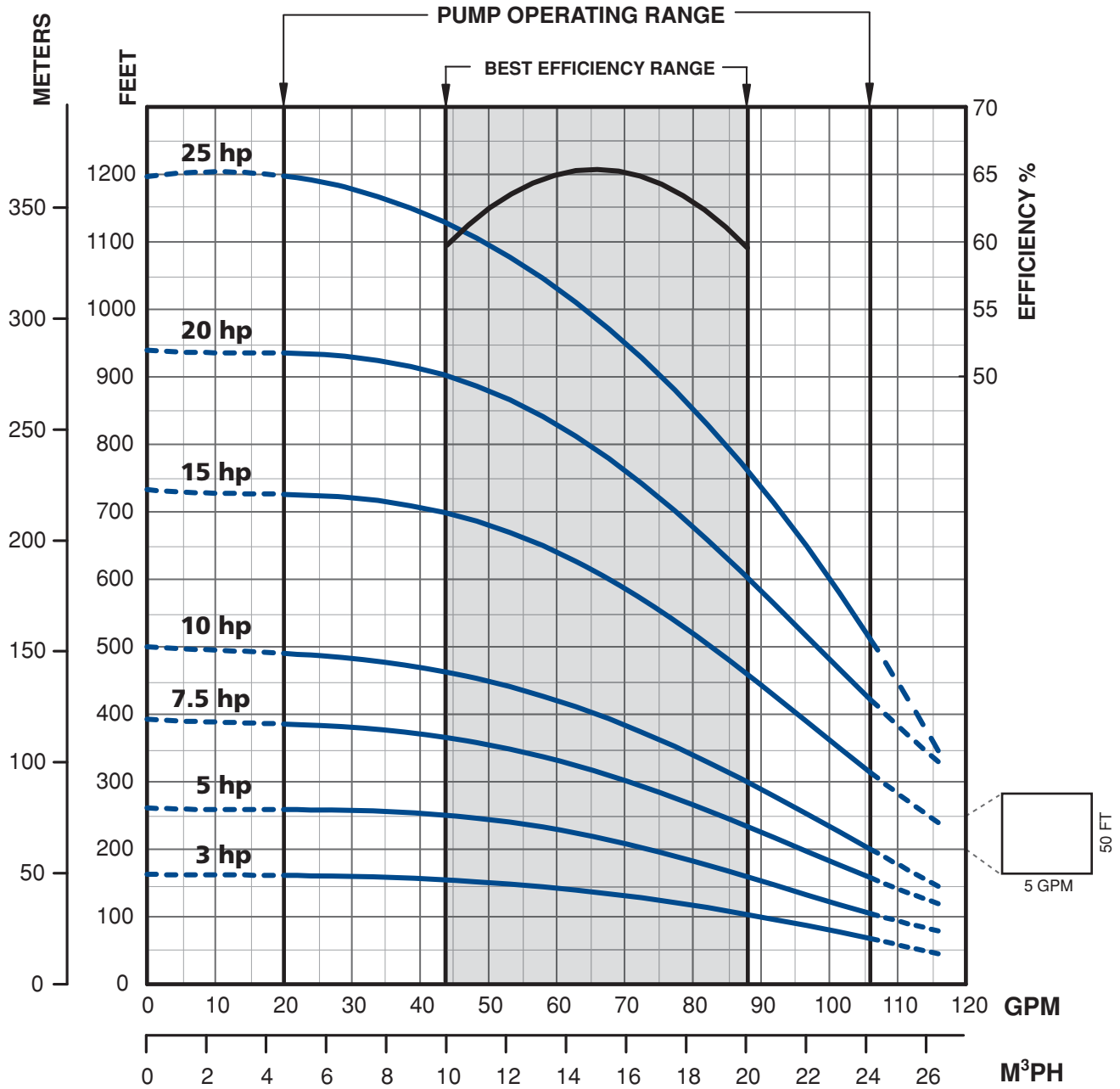
Discharge 3" NPT.

- Notes: 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

6" High Capacity Pumps

75 gpm Performance



Submersible Pumps

6" High Capacity Pumps 75 gpm Performance

Capacities in U.S. Gallons per Minute:

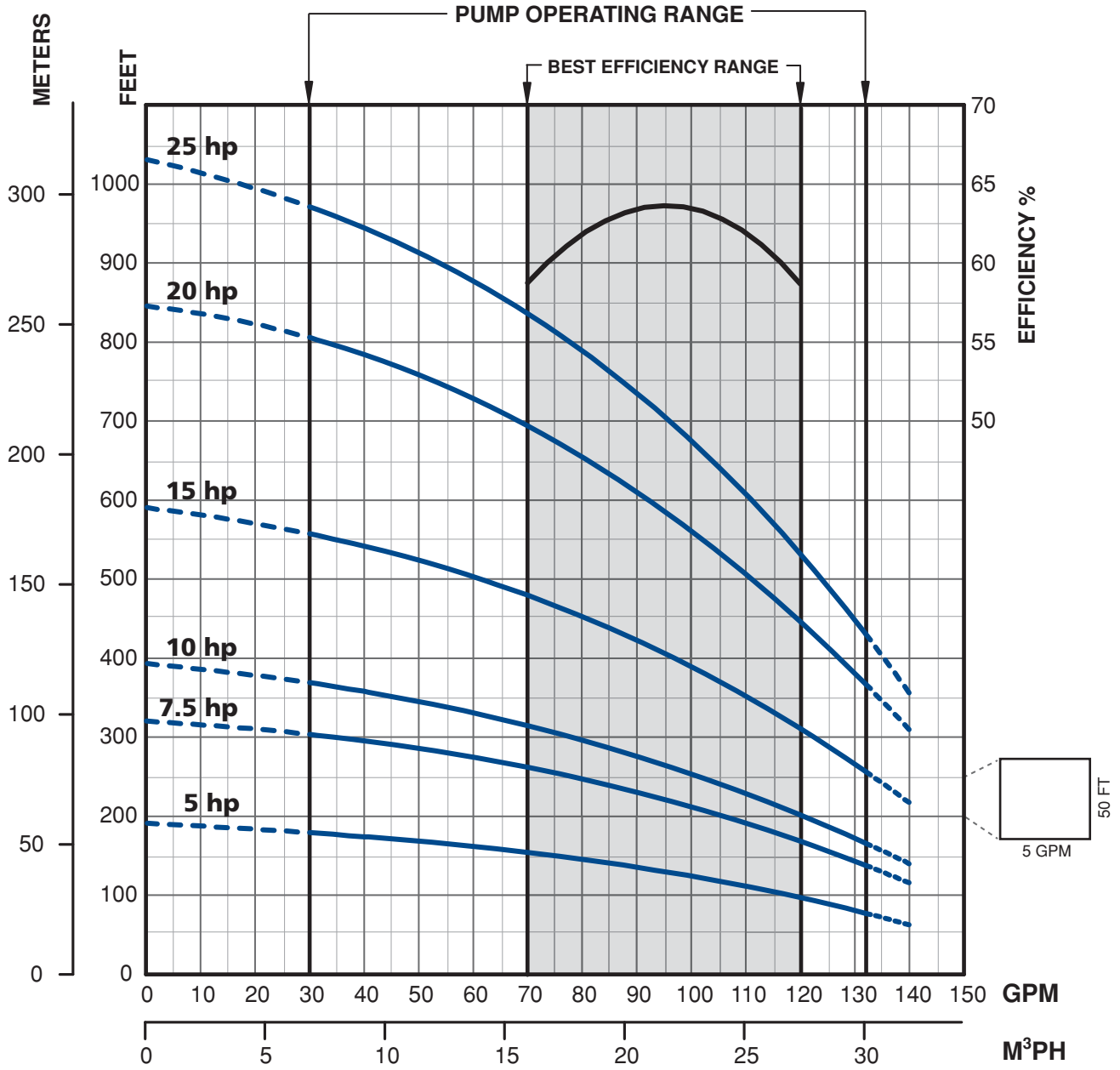
HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																					
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																					
		20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550					
3	0			108	101	89	77	64	26										Shut-off 162 ft				
	20	106	98	85	73	57																	
	30	96	83	72	53																		
	40	81	70	47																			
	50	68	40																				
Shut-off PSI		61	53	44	35	27	18	9	1														
5	0				116	106	102	96	88	79	73	41							Shut-off 259 ft				
	20		112	105	100	93	85	77	71	64	47												
	30	110	104	99	92	84	76	70	63	43													
	40	103	98	91	82	75	69	61	37														
	50	97	89	81	74	68	58	31															
Shut-off PSI		103	95	86	77	69	60	51	43	34	25	4											
7.5	0						116	109	105	101	97	83	70	54					Shut-off 387 ft				
	20				114	108	104	100	96	90	85	71	56										
	30			112	107	103	99	95	89	84	78	65	40										
	40		111	106	103	99	94	88	83	77	72	57											
	50	111	106	102	98	93	88	82	76	71	66	43											
Shut-off PSI		159	150	142	133	124	116	107	98	90	81	59	38	16									
10	0								112	109	106	98	88	77	66	50			Shut-off 493 ft				
	20					116	111	108	105	102	99	89	78	67	52								
	30				115	111	107	104	101	98	94	84	73	61	39								
	40			114	110	107	104	101	98	94	89	78	68	54	18								
	50		114	109	106	104	100	97	93	89	84	74	63	42									
Shut-off PSI		205	196	187	179	170	161	153	144	135	127	105	84	62	40	19							
HP	PSI	120	140	160	180	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950		
15	0						114	107	102	97	89	81	74	68	60	41						Shut-off 727 ft	
	20					115	107	103	97	90	82	75	69	61	43								
	30				114	110	105	100	94	86	78	72	66	55	28								
	40			113	110	107	103	98	90	82	75	69	62	45									
	50		113	109	107	105	101	95	87	79	73	66	56	31									
Shut-off PSI		263	254	245	237	228	206	185	163	142	120	98	77	55	33	12							
20	0								113	107	103	100	94	88	82	76	71	66	58	43		Shut-off 936 ft	
	20							113	107	104	100	95	89	82	76	72	67	59	44				
	30							110	106	102	98	92	86	79	74	69	64	54	33				
	40						114	108	104	100	95	89	83	77	72	67	60	46					
	50						110	106	102	98	93	86	80	74	70	64	55	35					
Shut-off PSI		353	345	336	327	319	297	275	254	232	210	189	167	145	124	102	80	59	37	15			
HP	PSI	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200		
25	0			116	112	109	107	104	101	97	93	89	84	79	75	70	65	59	50	38	19	Shut-off 1202 ft	
	20		116	112	109	107	104	101	98	93	89	84	80	75	70	65	59	51	39	21			
	30		114	111	108	106	103	100	96	91	87	82	78	73	68	63	56	46	31				
	40		112	109	107	104	101	98	94	89	85	80	75	71	66	60	51	40	23				
	50	114	111	108	106	103	100	96	92	87	83	78	73	69	63	56	47	33					
Shut-off PSI		412	391	369	347	326	304	283	261	239	218	196	174	153	131	109	88	66	44	23	1		

Discharge 3" NPT.

- Notes: 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

6" High Capacity Pumps 100 gpm Performance



Submersible Pumps

6" High Capacity Pumps 100 gpm Performance

Capacities in U.S. Gallons per Minute:

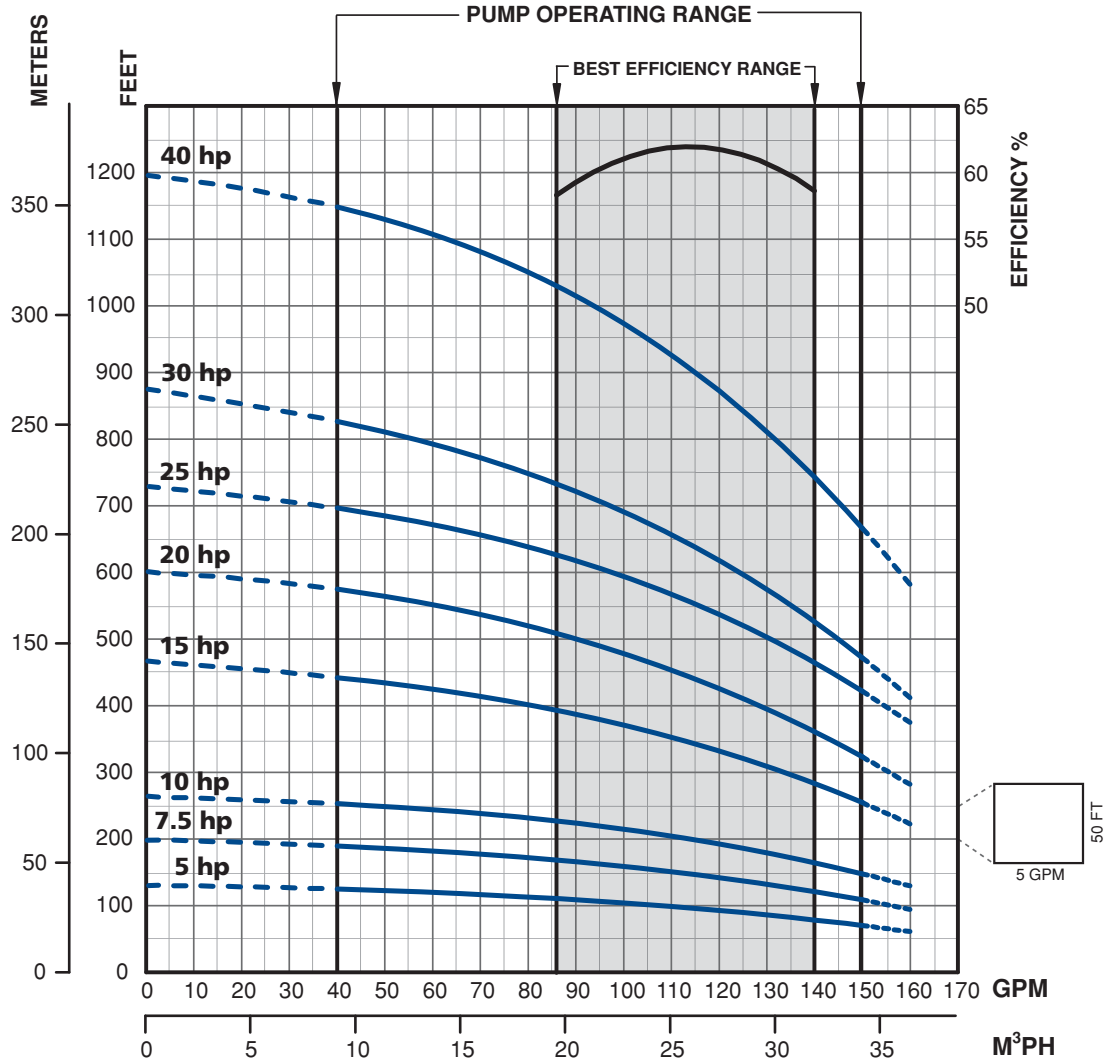
HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																	
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																	
		20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	
5	0				130	119	104	85	62										Shut-off 191 ft
	20		127	115	98	78	54												
	30	125	112	95	75	49													
	40	110	92	71	44														
	50	89	68	38															
	60	64	32																
	70																		
Shut-off PSI		74	65	57	48	39	31	22	13										
7.5	0							131	123	115	107	79	32					Shut-off 320 ft	
	20					129	121	113	104	93	82	37							
	30				127	120	111	102	92	79	64								
	40			126	118	110	101	90	77	62	42								
	50		125	117	109	99	88	75	59	38									
	60	124	116	107	97	86	73	56	34										
	70	115	106	96	84	71	53	30											
Shut-off PSI		130	121	113	104	95	87	78	69	61	52	30	9						
10	0									127	121	102	79	45				Shut-off 393 ft	
	20							132	125	118	111	104	81	48					
	30					131	124	117	110	102	94	67	28						
	40				130	123	116	109	101	92	83	51							
	50			129	122	115	108	100	91	81	70	31							
	60		128	121	114	107	99	90	79	68	54								
	70	127	120	113	105	97	88	78	66	52	35								
Shut-off PSI		161	153	144	135	127	118	110	101	92	84	62	40	19					
15	0											123	111	98	82	61	32	Shut-off 590 ft	
	20											123	112	99	83	62	34		
	30										129	118	107	93	74	51			
	40							132	128	124	113	101	85	64	37				
	50							132	128	124	119	108	94	76	53				
	60					130	126	122	118	113	109	102	86	66	39				
	70					130	126	122	118	113	109	95	78	55					
Shut-off PSI		247	238	229	221	212	204	195	186	178	169	147	126	104	82	61	39	17	
20	0					127	119	111	103	94	82	69	52					Shut-off 846 ft	
	20				127	120	112	104	94	83	70	53	31						
	30			131	124	116	108	99	89	78	63	44							
	40			128	120	112	104	95	84	71	55	33							
	50		132	124	117	109	100	90	79	64	45								
	60		128	121	113	105	96	85	72	56	35								
	70	132	125	117	109	101	91	80	65	47									
Shut-off PSI		280	258	236	215	193	172	150	128	107	85	63	42						
25	0					130	124	118	111	104	96	87	78	67	53	37		Shut-off 1030 ft	
	20				130	124	118	112	105	97	88	79	68	55	39				
	30				128	122	116	109	101	93	84	74	62	48	30				
	40				130	125	119	112	105	97	89	79	68	56	40				
	50				128	122	116	109	102	94	85	75	63	49	31				
	60			131	125	119	113	106	98	90	80	69	57	41					
	70			128	123	117	110	102	94	85	75	64	50	33					
Shut-off PSI		359	338	316	294	273	251	229	208	186	164	143	121	99					

Discharge 3" NPT.

- Notes: 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

6" High Capacity Pumps 125 gpm Performance



Capacities in U.S. Gallons per Minute:

HP	PSI	20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650		
5	0				140	106	62															Shut-off 130 ft
	20		131	94																		
	30	126	88																			
	40	82																				
	Shut-off PSI	48	39	30	22	13	4															
7.5	0						141	122	99	64												Shut-off 198 ft
	20				135	116	90	48														
	30		150	133	112	85																
	40	147	130	109	79																	
	50	127	105	73																		
	60	101	67																			
	70	60																				
Shut-off PSI	77	69	60	51	43	34	25	17	8													

Submersible Pumps

6" High Capacity Pumps 125 gpm Performance

HP	PSI	20	40	60	80	100	120	140	160	180	200	250	300	350	400	450	500	550	600	650	
10	0								143	129	114	45									
	20						139	125	109	88	54										
	30				149	137	122	106	84	47											
	40			148	135	120	103	79													
	50		146	132	118	100	74														
	60	144	130	115	97	69															
	70	128	112	93	63																
Shut-off PSI		105	97	88	79	71	62	53	45	36	27	6									

Shut-off 263 ft

15	0												134	112	81						
	20											135	114	84							
	30										145	126	101	65							
	40									144	137	116	87								
	50						149	143	136	128	104	68									
	60					148	142	134	126	117	89	44									
	70					147	141	133	125	116	106	72									
Shut-off PSI			185	176	168	159	150	142	133	124	116	94	72	51	29						

Shut-off 467 ft

20	0												143	129	113	91	59				
	20											144	130	114	93	62					
	30											138	123	105	81	41					
	40											145	131	115	95	65					
	50											139	124	107	83	45					
	60										146	132	117	97	68						
	70								150	145	140	125	108	85	49						
Shut-off PSI		252	243	234	226	217	208	200	191	182	174	152	130	109	87	65	44	22			

Shut-off 601 ft

25	0													143	133	119	99	71			
	20													144	134	120	101	74			
	30												149	140	128	112	90	57			
	40												145	135	121	103	76				
	50												150	140	129	114	92	60			
	60												146	135	123	104	78	42			
	70												141	130	115	94	63				
Shut-off PSI				292	283	275	266	257	249	240	231	210	188	166	145	123	101	80	58	37	

Shut-off 734 ft

HP	PSI	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	
30	0						143	134	125	113	99	79	54						
	20					144	135	126	114	100	81	56							
	30				149	140	131	121	108	92	70	43							
	40				145	136	126	115	101	83	58								
	50			149	141	132	122	109	93	72	45								
	60			145	136	127	116	102	84	60									
	70		150	141	132	122	110	95	74	47									
Shut-off PSI		270	248	226	205	183	161	140	118	96	75	53	31						

Shut-off 873 ft

40	0									150	144	138	132	125	117	107	95	80		
	20									150	145	139	132	126	118	1108	96	82	62	
	30									148	142	136	129	122	114	103	90	73	52	
	40									145	139	133	126	118	109	97	83	64	40	
	50								148	142	136	130	123	114	104	91	75	53		
	60								145	139	133	127	119	110	98	84	66	42		
	70						149	143	137	130	123	115	105	92	76	55				
Shut-off PSI		409	387	365	344	322	300	279	257	235	214	192	170							

Shut-off 1194 ft

Discharge 3" NPT.

- Notes: 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

E-Series Environmental Pumps Features & Ordering Information



High Head Filtered Effluent Pump

Features:

- Ideal for filtered effluent pumping applications
- Stainless steel or thermoplastic discharge and motor bracket are tough and non-corrosive. Both materials are highly resistant to damage by minerals, metals and other substances typically found in water.
- Heavy duty, 300 V, 10' SJOOW motor leads
- Ceramic bearing sleeve has time proven durability for years of reliable service
- Hex rubber bearing has extra large surface assuring shaft stability and multiple flow channels keeping particles away from bearing surfaces
- Proven Noryl® staging allows close tolerances and increased performance
- Carbon phenolic up thrust washer prevents excessive wear in severe applications
- Removable built in check valve on 10-20 gpm pumps. No built in check valves on high capacity pumps
- Powered by Franklin Electric super stainless submersible motor

Noryl® is a registered trademark of G.E.

Applications:

- Filtered effluent service
- Aeration
- Ornamental fountains/waterfalls



Submersible Pumps

E-Series Environmental Pumps Features & Ordering Information

Thermoplastic Ordering Information: (See pgs. 2-3 for model number explanation)

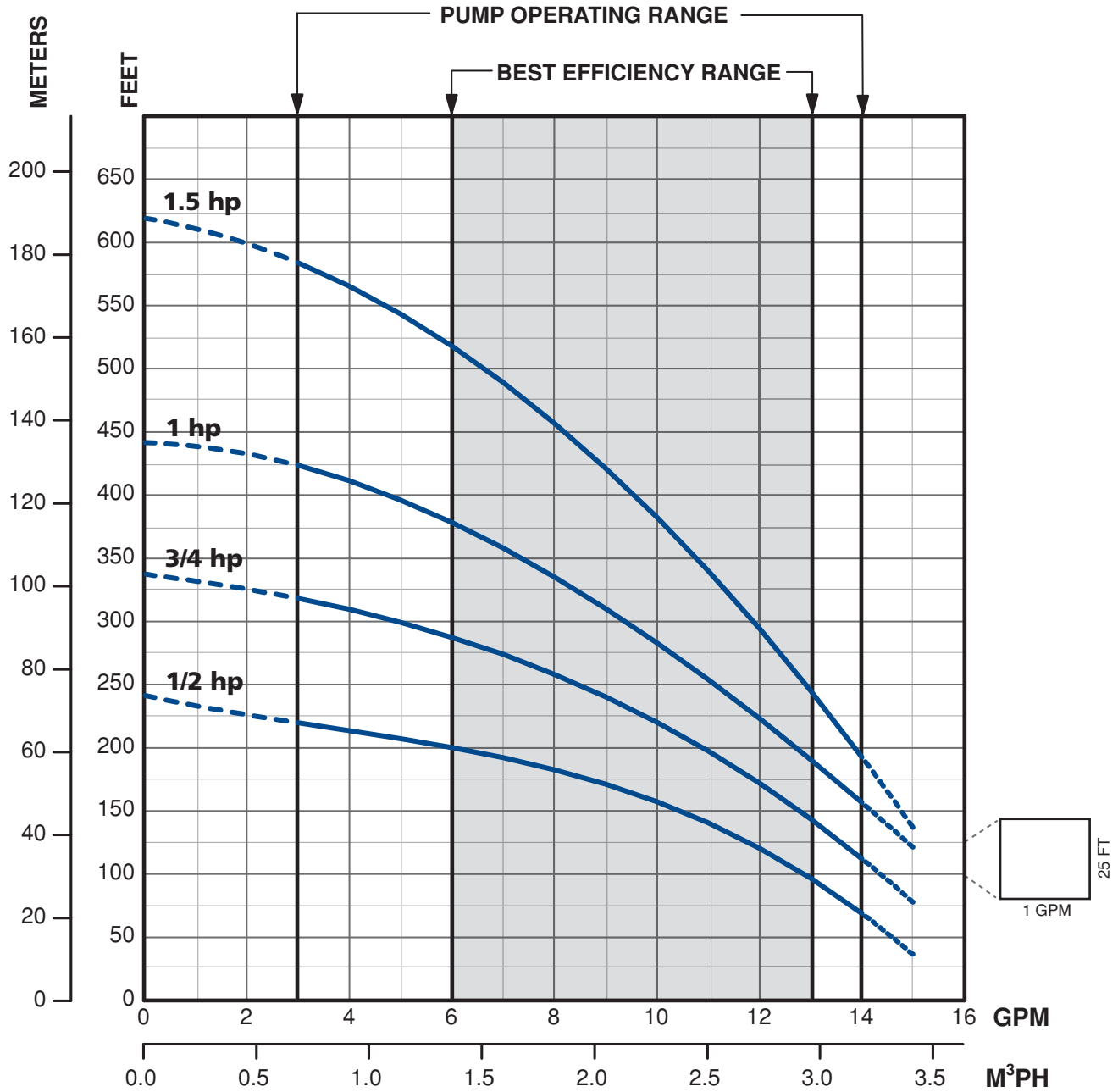
1/2 - 1.5 HP SINGLE-PHASE UNITS						
GPM	HP	VOLT	WIRE	ORDER NO.	MODEL	WT.
10	1/2	115	2	94721005	10JE05P4-2W115	24
	1/2	230	2	94721010	10JE05P4-2W230	24
	3/4	230	2	94721015	10JE07P4-2W230	28
	1	230	2	94721020	10JE1P4-2W230	31
	1.5	230	2	94721025	10JE15P4-2W230	46
20	1/2	115	2	94722005	20JE05P4-2W115	25
	1/2	230	2	94722010	20JE05P4-2W230	25
	3/4	230	2	94722015	20JE07P4-2W230	28
	1	230	2	94722020	20JE1P4-2W230	31
	1.5	230	2	94722025	20JE15P4-2W230	40
1/2 - 2 HP PUMP ENDS						
GPM	HP	VOLT	WIRE	ORDER NO.	MODEL	WT.
10	1/2	N/A	2	94731005	10JE05P4-PE	6
	3/4	N/A	N/A	94731010	10JE07P4-PE	7
	1	N/A	N/A	94731015	10JE1P4-PE	8
	1.5	N/A	N/A	94731020	10JE15P4-PE	12
20	1/2	N/A	N/A	94732005	20JE05P4-PE	6
	3/4	N/A	N/A	94732010	20JE07P4-PE	7
	1	N/A	N/A	94732015	20JE1P4-PE	8
	1.5	N/A	N/A	94732020	20JE15P4-PE	10
	2	N/A	N/A	94732025	20JE2P4-PE	11

Note: Discharge is 1-1/4" NPT. Maximum diameter across cable guard is 3.90" on all models. Weight in pounds.

Submersible Pumps

E-Series Environmental Pumps

Thermoplastic - 10 gpm Performance



Submersible Pumps

E-Series Environmental Pumps Thermoplastic - 10 gpm Performance

Capacities in U.S. Gallons per Minute:

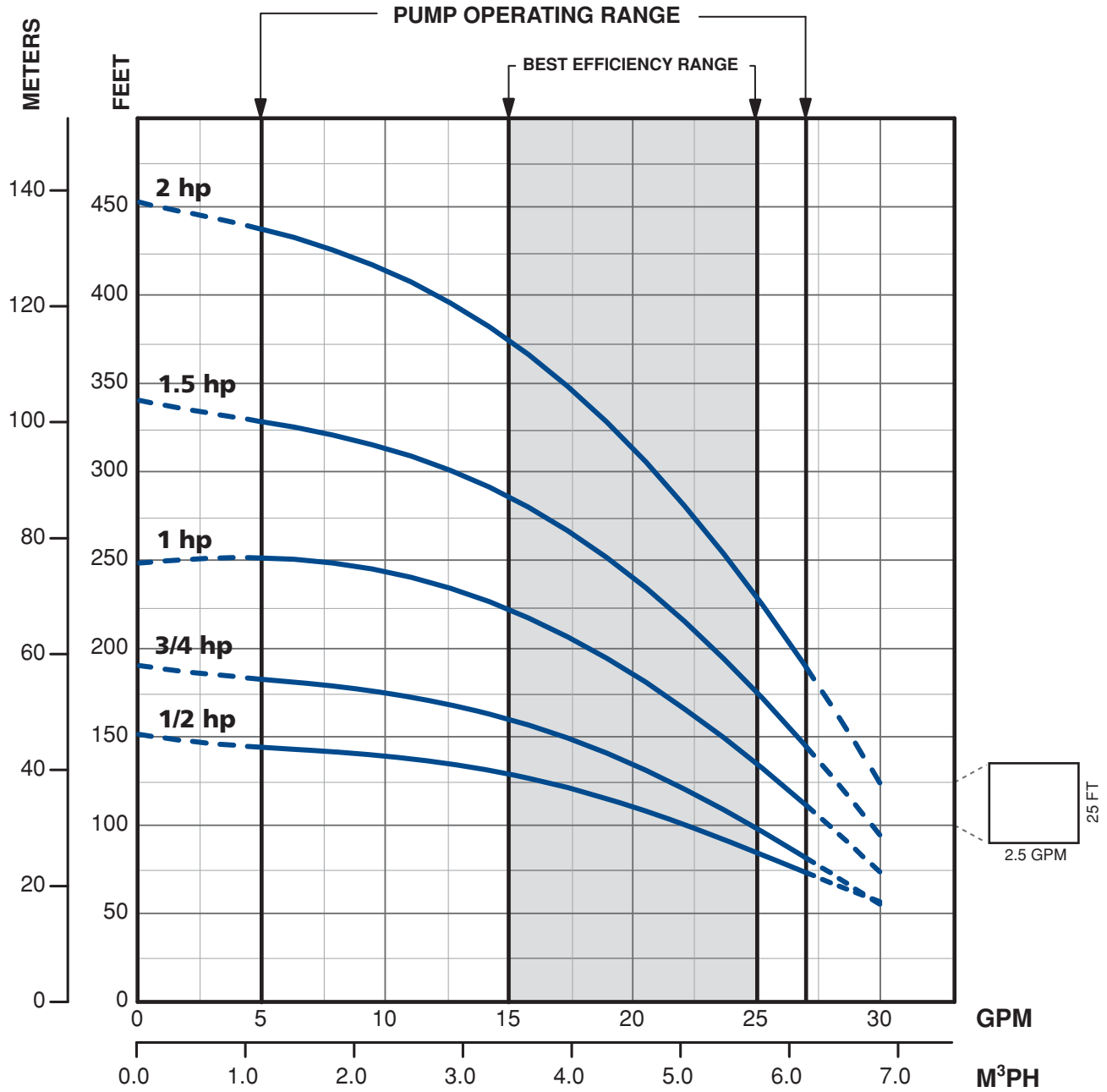
HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																	
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																	
		200	400	600	800	1000	1200	1400	1600	1800	2000	2500	3000	3500	4000	4500	5000	5500	6000
1/2	0			14	14	13	12	11	10	8	6								
	20	14	13	13	12	11	9	8	5										
	30	13	12	12	11	9	7	5											
	40	12	11	10	9	7	4												
	50	11	10	9	6	4													
	60	10	8	6	3														
	70	8	6	3															
	80	5																	
Shut-off PSI		96	87	79	70	61	53	44	35	27	18								
3/4	0					14	14	13	12	12	11	8	5						
	20			14	14	13	12	11	11	10	9	5							
	30		14	13	13	12	11	10	10	9	7	3							
	40	14	13	13	12	11	10	9	8	7	6								
	50	13	13	12	11	10	9	8	7	5	3								
	60	13	12	11	10	9	8	7	5	3									
	70	12	11	10	9	8	6	5											
	80	11	10	9	8	6	4												
Shut-off PSI		137	129	120	111	103	94	85	77	68	59	38	16						
1	0					14	14	14	13	13	11	9	7	5					
	20					14	14	13	13	12	11	9	8	5					
	30				14	14	13	13	12	11	10	9	7	3					
	40			14	13	13	12	12	11	10	10	8	5						
	50	14	14	13	13	12	12	11	10	9	9	7	4						
	60	14	13	13	12	12	11	10	9	9	8	6							
	70	13	13	12	11	11	10	9	8	8	7	4							
	80	13	12	11	11	10	9	8	8	7	6								
Shut-off PSI		182	174	165	156	148	139	130	122	113	105	83	61	40	18				
1.5	0								14	14	13	12	11	9	8	7	5		
	20							14	14	13	13	12	11	10	8	7	5		
	30					14	14	14	13	13	13	12	10	9	8	6	4		
	40				14	14	14	13	13	13	12	11	10	8	7	5			
	50			14	14	14	13	13	12	12	12	10	9	8	6	4			
	60		14	14	14	13	13	12	12	12	11	10	8	7	5	3			
	70	14	14	13	13	13	12	12	11	11	10	9	8	6	4				
	80	14	13	13	13	12	12	11	11	10	10	9	7	5	3				
Shut-off PSI		259	251	242	233	225	216	207	199	190	181	160	138	117	95	73	52	30	8

- Notes:** 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

E-Series Environmental Pumps

Thermoplastic - 20 gpm Performance



Submersible Pumps

E-Series Environmental Pumps Thermoplastic - 20 gpm Performance

Capacities in U.S. Gallons per Minute:

HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																	
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																	
		200	400	600	800	1000	1200	1400	1600	1800	2000	2500	3000	3500	4000	4500	5000	5500	
1/2	0				26	22	18	9											Shut-off 152 ft
	20		24	21	16														
	30	24	21	15															
	40	20	13																
	50	12																	
	60																		
	70																		
	80																		
	Shut-off PSI	57	48	40	31	22	14	5											
3/4	0				27	25	22	19	15	7								Shut-off 191 ft	
	20		26	24	21	18	13												
	30	26	24	21	18	12													
	40	23	20	17	11														
	50	20	16	9															
	60	15	8																
	70	6																	
	80																		
	Shut-off PSI	74	65	57	48	39	31	22	13	5									
1	0					26	25	23	20	18	6						Shut-off 251 ft		
	20			27	26	24	22	20	18	15	8								
	30		27	26	24	22	19	17	14	7									
	40	27	25	23	21	19	17	13											
	50	25	23	21	19	16	12												
	60	23	21	18	16	11													
	70	20	18	15	10														
	80	18	15	9															
	Shut-off PSI	100	91	83	74	65	57	48	40	31	22	1							
1.5	0						27	26	25	23	19	13					Shut-off 341 ft		
	20					27	26	24	22	21	19	13							
	30				27	26	24	22	21	19	17	8							
	40			27	25	24	22	21	19	17	14								
	50		26	25	24	22	20	19	16	14	9								
	60	26	25	23	22	20	18	16	13	8									
	70	25	23	21	20	18	16	12	7										
	80	23	21	20	18	15	12	6											
	Shut-off PSI	130	130	122	113	104	96	87	78	70	61	39	18						
2	0								27	27	24	21	17	12			Shut-off 452 ft		
	20							27	26	25	24	21	18	13					
	30							27	26	25	24	23	19	16	9				
	40						27	26	25	24	23	21	18	13					
	50				27	26	25	24	22	21	20	16	10						
	60		27	27	26	25	23	22	21	19	18	14	5						
	70	27	27	26	24	23	22	21	19	18	16	10							
	80	26	25	24	23	22	20	19	18	16	14	6							
	Shut-off PSI	187	178	170	161	153	144	135	127	118	109	88	66	44	23				

- Notes: 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

E-Series Environmental Pumps

Features & Ordering Information

Stainless Steel Ordering Information:

(See pgs. 2-3 for model number explanation)

1/2 - 1.5 HP SINGLE-PHASE UNITS						
GPM	HP	VOLT	WIRE	ORDER NO.	MODEL	WT.
35	1/2	115	2	94723505	35JE05S4-2W115	25
	1/2	230	2	94723510	35JE05S4-2W230	25
	3/4	230	2	94723515	35JE07S4-2W230	29
	1	230	2	94723520	35JE1S4-2W230	33
	1.5	230	2	94723525	35JE15S4-2W230	39
45	1/2	115	2	94724505	45JE05S4-2W115	28
	1/2	230	2	94724510	45JE05S4-2W230	28
	3/4	230	2	94724515	45JE07S4-2W230	33
	1	230	2	94724520	45JE1S4-2W230	36
	1.5	230	2	94724525	45JE15S4-2W230	44
60	1/2	115	2	94726005	60JE05S4-2W115	29
	1/2	230	2	94726010	60JE05S4-2W230	29
	3/4	230	2	94726015	60JE07S4-2W230	33
	1	230	2	94726020	60JE1S4-2W230	37
	1.5	230	2	94726025	60JE15S4-2W230	45
90	1.5	230	2	94729025	90JE15S4-2W230	44

Notes: Maximum diameter across cable guard is 3.90" on all models. Weight in pounds.

Discharge is 2" NPT with no built in check valve.

Submersible Pumps

E-Series Environmental Pumps Features & Ordering Information

Stainless Steel Ordering Information:

(See pgs. 2-3 for model number explanation)

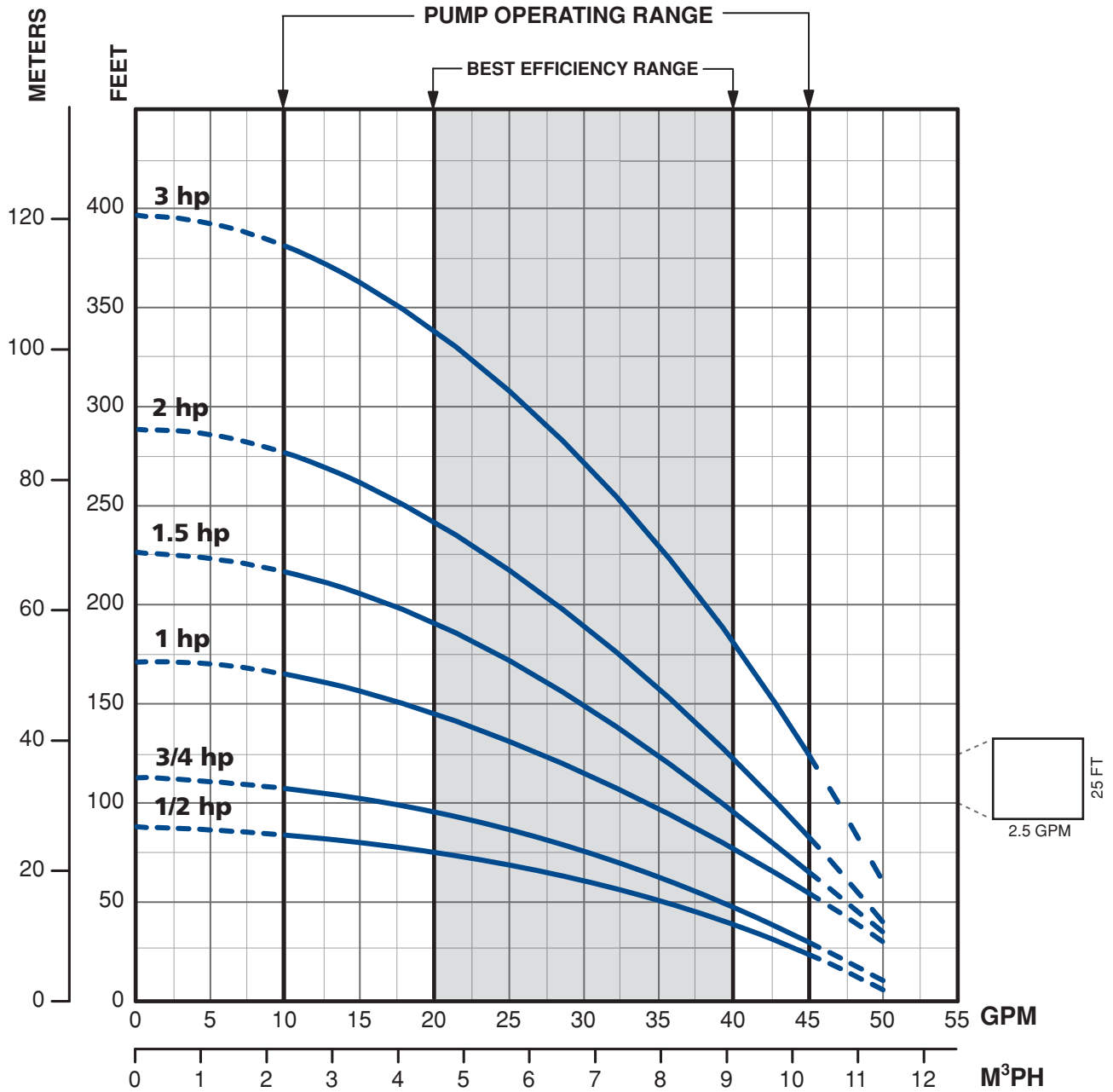
1/2 - 3 HP PUMP ENDS						
GPM	HP	VOLT	WIRE	ORDER NO.	MODEL	WT.
35	1/2	N/A	N/A	94733505	35JE05S4-PE	7
	3/4	N/A	N/A	94733510	35JE07S4-PE	8
	1	N/A	N/A	94733515	35JE1S4-PE	9
	1.5	N/A	N/A	94733520	35JE15S4-PE	10
	2	N/A	N/A	94733525	35JE2S4-PE	11
	3	N/A	N/A	94733530	35JE3S4-PE	12
45	1/2	N/A	N/A	94734505	45JE05S4-PE	10
	3/4	N/A	N/A	94734510	45JE07S4-PE	11
	1	N/A	N/A	94734515	45JE1S4-PE	12
	1.5	N/A	N/A	94734520	45JE15S4-PE	15
	2	N/A	N/A	94734525	45JE2S4-PE	16
	3	N/A	N/A	94734530	45JE3S4-PE	19
60	1/2	N/A	N/A	94736005	60JE05S4-PE	11
	3/4	N/A	N/A	94736010	60JE07S4-PE	12
	1	N/A	N/A	94736015	60JE1S4-PE	13
	1.5	N/A	N/A	94736020	60JE15S4-PE	14
	2	N/A	N/A	94736025	60JE2S4-PE	15
	3	N/A	N/A	94736030	60JE3S4-PE	17
90	1.5	N/A	N/A	94739020	90JE15S4-PE	15
	2	N/A	N/A	94739025	90JE2S4-PE	15
	3	N/A	N/A	94739030	90JE3S4-PE	17

Notes: Maximum diameter across cable guard is 3.90" on all models. Weight in pounds.
Discharge is 2" NPT with no built in check valve.

Submersible Pumps

E-Series Environmental Pumps

Stainless Steel - 35 gpm Performance



Submersible Pumps

E-Series Environmental Pumps Stainless Steel - 35 gpm Performance

Capacities in U.S. Gallons per Minute:

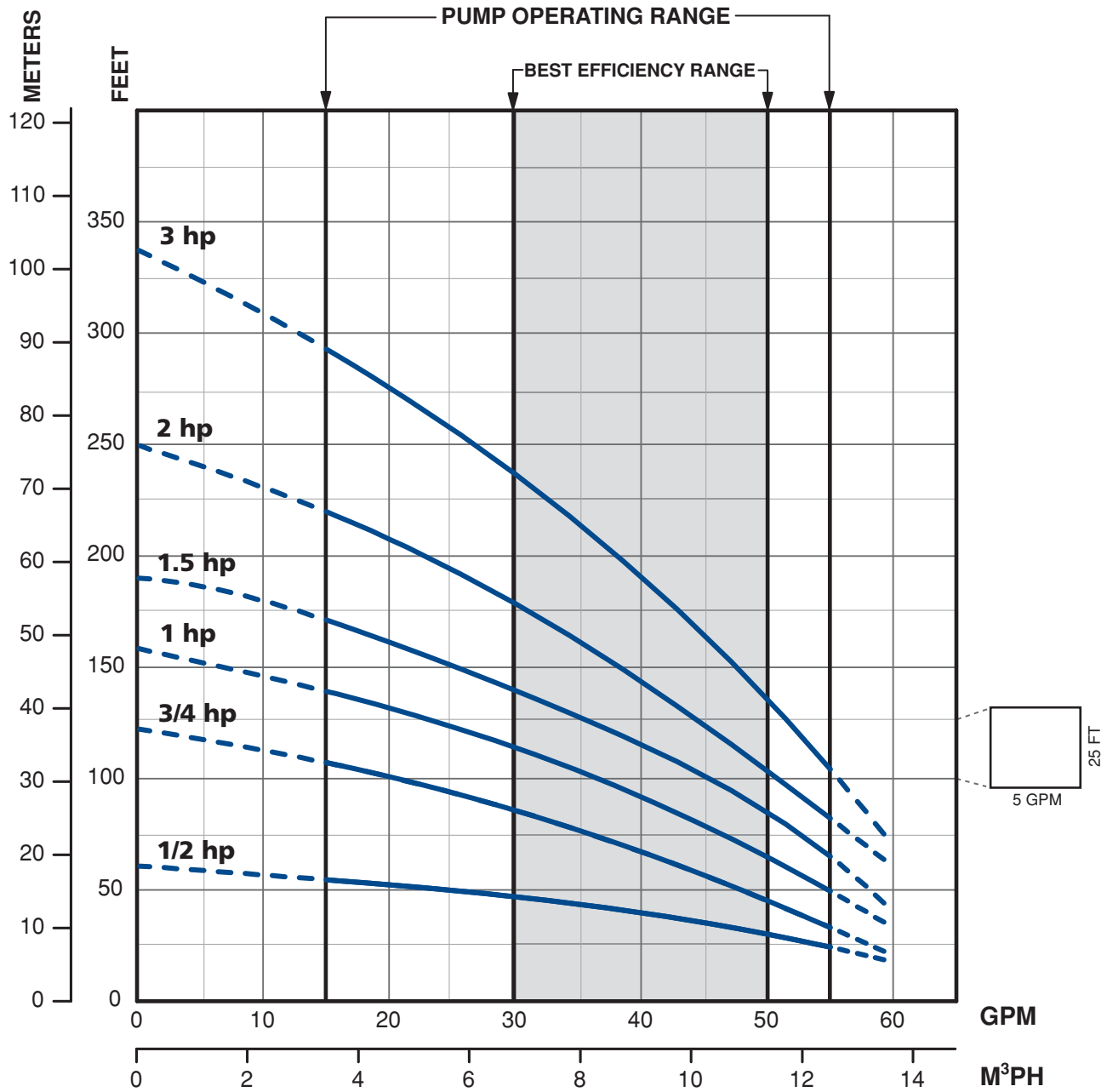
HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																					
		200	400	600	800	1000	1200	1400	1600	1800	2000	2500	3000	3500	4000	4500	5000		5500				
1/2	0		40	30	15																Shut-off 88 ft		
	10	38	29	11																			
	20	27																					
	30																						
	40																						
	50																						
Shut-off PSI		29	21	12	3																		
3/4	0		42	36	28	17															Shut-off 113 ft		
	10	42	35	27	14																		
	20	33	25	11																			
	30	24																					
	40																						
	50																						
Shut-off PSI		40	32	23	14	6																	
1	0			44	40	34	28	22	13												Shut-off 171 ft		
	10		43	39	33	27	21	11															
	20	43	38	32	26	20																	
	30	37	31	26	19																		
	40	30	25	17																			
	50	24	16																				
60	14																						
Shut-off PSI		65	57	48	39	31	22	13	5														
1.5	0				43	40	36	31	27	23	18										Shut-off 226 ft		
	10		45	42	39	35	31	27	23	16													
	20	45	42	38	34	30	26	22	15														
	30	41	38	34	30	26	21	13															
	40	37	33	29	25	20	12																
	50	32	28	24	19	10																	
	60	28	24	18																			
	70	23	17																				
	80	16																					
Shut-off PSI		89	81	72	63	55	46	37	29	20	11												
2	0				45	43	41	38	34	31	28	19									Shut-off 288 ft		
	10			45	43	40	37	34	31	27	24	11											
	20		45	42	40	37	33	30	27	24	20												
	30	44	42	39	36	33	30	26	23	19	12												
	40	42	39	36	32	29	26	22	18	11													
	50	38	35	32	29	25	22	17	10														
	60	35	31	28	25	21	16																
	70	31	28	24	21	15																	
	80	27	24	20	14																		
Shut-off PSI		116	107	99	90	81	73	64	55	47	38	16											
3	0					45	44	42	40	38	32	26	18								Shut-off 396 ft		
	10					45	44	42	40	38	36	29	23	12									
	20				45	44	42	40	38	35	33	27	19										
	30			45	43	42	39	37	35	32	30	24	13										
	40		45	43	41	39	37	34	32	30	27	20											
	50	44	43	41	39	36	34	32	29	27	24	14											
	60	43	41	38	36	34	31	29	26	24	21												
	70	40	38	36	33	31	28	26	23	20	15												
	80	38	35	33	30	28	26	23	19	15													
Shut-off PSI		163	154	145	137	128	119	111	102	94	85	63	42	20									

Notes: 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

E-Series Environmental Pumps

Stainless Steel - 45 gpm Performance



Submersible Pumps

E-Series Environmental Pumps Stainless Steel - 45 gpm Performance

Capacities in U.S. Gallons per Minute:

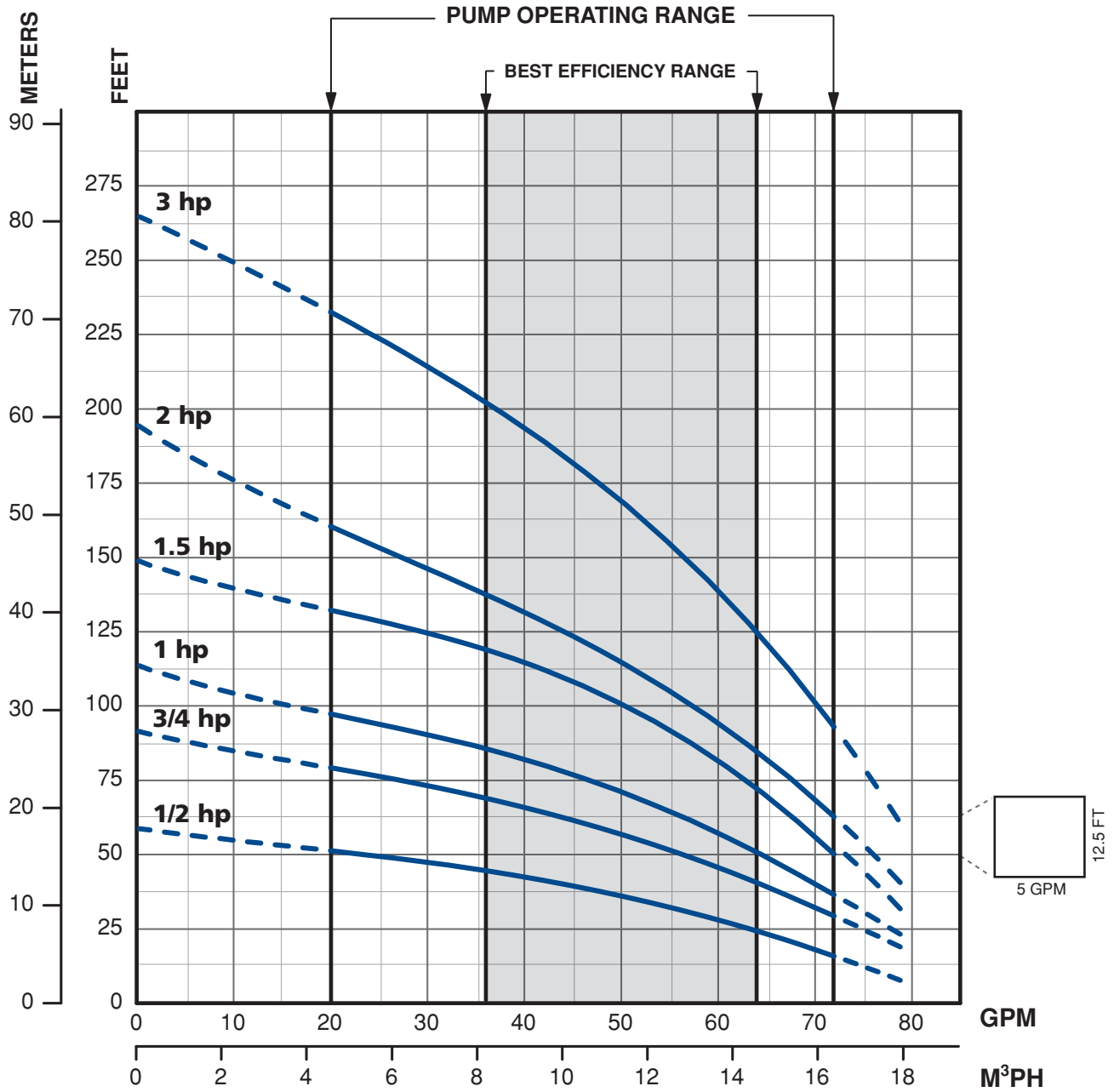
HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																		
		200	400	600	800	1000	1200	1400	1600	1800	2000	2500	3000	3500	4000	4500	5000		5500	
1/2	0		40																	Shut-off 61 ft
	10	36																		
	20																			
	30																			
	40																			
	50																			
Shut-off PSI		18	9																	
3/4	0		52	43	33	21														Shut-off 122 ft
	10	51	42	32	18															
	20	40	30	16																
	30	28																		
	40																			
	50																			
Shut-off PSI		44	36	27	18	10														
1	0			52	45	37	27													Shut-off 158 ft
	10		51	43	35	25														
	20	49	42	34	23															
	30	41	32	21																
	40	31	20																	
	50	17																		
Shut-off PSI		60	51	43	34	25	17													
1.5	0				52	46	38	30	21											Shut-off 190 ft
	10		55	51	44	37	28	19												
	20	55	50	43	35	27	18													
	30	49	42	34	26	16														
	40	41	33	24																
	50	32	23																	
60	22																			
Shut-off PSI		74	65	56	48	39	30	22	13											
2	0				55	51	46	41	36	30	23									Shut-off 250 ft
	10			55	50	45	40	35	29	22										
	20		54	49	44	39	34	28	21											
	30	53	49	44	38	33	27	19												
	40	48	43	38	32	26	18													
	50	42	37	31	24	17														
60	36	30	23	16																
Shut-off PSI		99	91	82	73	65	56	48	39	30	22									
3	0					56	53	49	46	42	38	27								Shut-off 337 ft
	10				55	52	49	45	41	37	33	21								
	20			55	52	48	45	41	37	32	28									
	30		54	51	48	44	40	36	32	27	22									
	40	54	51	47	44	40	35	31	26	21	15									
	50	50	47	43	39	35	30	25	20											
	60	46	42	38	34	30	25	19												
	70	42	38	33	29	24	18													
	80	37	33	28	23	17														
	90	32	27	22	16															
	100	27	21	16																
Shut-off PSI		137	129	120	111	103	94	85	77	68	59	38								

- Notes:** 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

E-Series Environmental Pumps

Stainless Steel - 60 gpm Performance



Submersible Pumps

E-Series Environmental Pumps Stainless Steel - 60 gpm Performance

Capacities in U.S. Gallons per Minute:

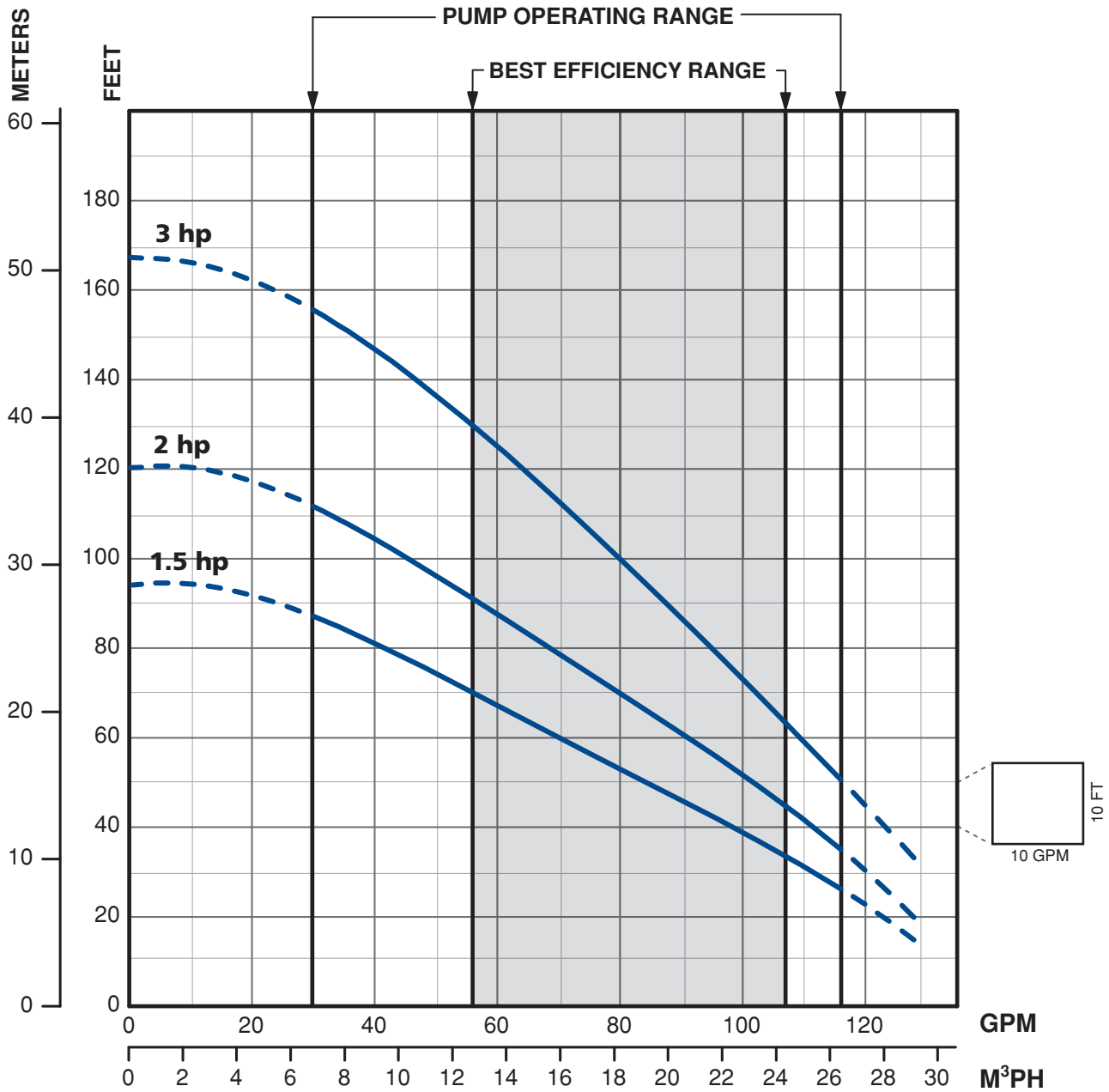
HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																	
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																	
		200	400	600	800	1000	1200	1400	1600	1800	2000	2500	3000	3500	4000	4500	5000	5500	
1/2	0	68	44																Shut-off 59 ft
	10	39																	
	20																		
	30																		
	40																		
	50																		
Shut-off PSI		17	8																
3/4	0		64	47															Shut-off 92 ft
	10	62	43																
	20	40																	
	30																		
	40																		
	50																		
Shut-off PSI		31	22	14															
1	0		70	58	42														Shut-off 114 ft
	10	68	56	39															
	20	54	35																
	30	31																	
	40																		
	50																		
Shut-off PSI		41	32	23	15														
1.5	0			69	61	51	34												Shut-off 149 ft
	10		67	59	49	31													
	20	66	58	47	27														
	30	57	44	24															
	40	42	20																
	50																		
Shut-off PSI		56	47	39	30	21	13												
2	0				66	57	47	34	21										Shut-off 195 ft
	10		72	65	56	45	32												
	20	71	64	54	43	30													
	30	62	53	41	28														
	40	51	39	26															
	50	37	24																
60	22																		
Shut-off PSI		76	67	58	50	41	32	24	15										
3	0					70	65	60	53	46	37								Shut-off 265 ft
	10					70	64	59	52	45	36	25							
	20				69	64	58	51	43	34	24								
	30		68	63	57	50	42	33	22										
	40	67	62	56	49	41	31	20											
	50	61	55	48	39	29													
60	54	46	38	28															
Shut-off PSI		106	98	89	80	72	63	54	46	37	28								

- Notes:** 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

E-Series Environmental Pumps

Stainless Steel - 90 gpm Performance



Submersible Pumps

E-Series Environmental Pumps Stainless Steel - 90 gpm Performance

Capacities in U.S. Gallons per Minute:

HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET.																			
		200	400	600	800	1000	1200	1400	1600	1800	2000	2500	3000	3500	4000	4500	5000		5500		
1.5	0		99	69	43															Shut-off 95 ft	
	10	94	65	38																	
	20	61	32																		
	30																				
	40																				
	50																				
Shut-off PSI		32	24	15	6																
2	0		112	91	68	47														Shut-off 121 ft	
	10	109	88	65	43																
	20	84	61	39																	
	30	58	34																		
	40																				
	50																				
Shut-off PSI		44	35	26	18	9															
3	0			110	96	79	64	48												Shut-off 167 ft	
	10		108	93	77	61	45														
	20	106	91	74	59	42															
	30	88	72	57	38																
	40	69	54	34																	
	50	52	30																		
Shut-off PSI		64	55	46	38	29	20	12													

- Notes:** 1. Performance shown does not include friction loss in the drop pipe.
2. All performance data is based on rated motor nameplate voltage.

Submersible Pumps

Accessories

Ordering Information



Check Valves



Poppet



Reducer Bushing



T-Handle Poppet Wrench

CHECK VALVES - SILICONE BRONZE

DESCRIPTION	INLET	OUTLET	CASE QTY.	ORDER NO.	WT.
Flomatic™ 4221LEB	1-1/4" MNPT	1" FNPT	36	91980631	1.25
Flomatic™ 4242LEB	1-1/4" MNPT	1-1/4" FNPT	36	91980649	1.75

CHECK VALVES - STAINLESS STEEL

DESCRIPTION	INLET	OUTLET	CASE QTY.	ORDER NO.	WT.
Flomatic™ #4221LSS2	1-1/4" MNPT	1" FNPT	49	91985317	1.4
Flomatic™ #4242SS2	1-1/4" MNPT	1-1/4" FNPT	49	91985309	1.5

CHECK VALVES - DUCTILE IRON

DESCRIPTION	INLET	OUTLET	CARTON QTY.	ORDER NO.	WT.
Simmons #658SB	2" MNPT	2" FNPT	1	91982157	3.5
Simmons #660SB	3" MNPT	3" FNPT	1	91981266	10
Simmons #661SB	4" MNPT	4" FNPT	1	91980334	21

FLOMATIC™ POPPET WITH REMOVABLE RING (PATENT PENDING)

DESCRIPTION	ORDER NO.	WT.
Flomatic™ Poppet with Removable Ring (Patent Pending)	91985259R	0.1
T-Handle Poppet Wrench	23498207	1

REDUCER BUSHING

DESCRIPTION	INLET	OUTLET	PSI RATING	ORDER NO.	WT.
White PVC Bushing	1-1/4" MNPT	1" FNPT	200 psi	31031008R	0.2

Note: Flomatic™ is a trademark of the Danfoss Corporation. All weights in pounds.

Non-Submersible Pumps

Jet Pumps - Shallow Well VersaJet Pro

J-CLASS VersaJet ^{pro}



CSA ENC 3
COF CSA 3



LR 80980



**Revolutionary Patent Pending
"Quick-Change" Jet Nozzle**

Features:

- Impeller with corrosion resistant stainless steel insert, diffuser, jet nozzle and venturi are all molded with Noryl®. Noryl® thermoplastic is a highly efficient, dependable material known for its exceptional performance when used to produce hydraulic components for water systems.
- Heavy-duty cast iron case ensures optimum durability and long life
- Floating stainless steel eye seal for maximum performance and efficiency
- Powered by a high quality, industry proven, UL778 approved indoor/outdoor motors from A.O. Smith
- Revolutionary Patent Pending "Quick-Change" jet nozzle replacement system allows easy customization of the pump. Performance can be changed quickly from a high pressure to a high flow set-up without removing the plumbing or opening the case.
- Easily adjustable dual voltage motor can be set to run at either 115V or 230V
- Professional grade 30/50 pressure switch with copper hose is adjustable in both the differential and the range
- Built-in drain plug for easy winterizing and servicing
- Handles water temperatures up to 120 °F/49 °C and shut-off pressures up to 90 psi
- 1" NPT discharge, 1-1/4" NPT suction
- UL778 certified for indoor or outdoor use

Noryl® is a registered trademark of G.E.

Ordering Information:

(See pgs. 2-3 for model number explanation)

MODEL	HP	SUCTION/DISCHARGE	VOLTAGE	PUMP UNIT	
				ORDER NO.	WT.
JVJ05CI-P	1/2	1-1/4" x 1"	115/230	91161005	34
JVJ07CI-P	3/4	1-1/4" x 1"	115/230	91161007	51
JVJ1CI-P	1	1-1/4" x 1"	115/230	91161010	56

Note: All weights in pounds.

Non-Submersible Pumps

Jet Pumps - Shallow Well

VersaJet Pro

Performance Chart:

VJ 1" DISCHARGE 1.25" SUCTION			DISCHARGE PRESSURE - PSI						SHUT-OFF PRESSURE PSI
MODEL	NOZZLE	TOTAL SUCTION LIFT FT.	10	20	30	40	50	60	
			GALLONS PER MINUTE						
JVJ05CI-P	Nozzle C (Standard)	5	16.3	15.6	15.1	14.1	9.0	3.8	70
		10	14.2	13.6	13.1	12.5	7.8	2.9	
		15	12.1	11.6	11.2	10.8	6.5	2.0	
		20	9.5	9.1	8.9	8.7	5.0	1.0	
		25	7.0	6.7	6.7	6.6	3.5	-	
	Nozzle D (High Pressure)	5	15.8	15.2	14.7	14.1	9.6	4.8	73
		10	13.9	13.2	12.8	12.4	8.5	3.9	
		15	11.9	11.1	10.8	10.6	7.5	3.0	
		20	9.2	8.8	8.6	8.5	6.2	1.8	
		25	6.5	6.5	6.4	6.4	4.8	0.6	
	Nozzle A (High Flow)	5	18.9	18.7	18.4	11.6	-	-	47
		10	16.8	16.6	16.3	8.0	-	-	
		15	14.8	14.5	14.2	4.4	-	-	
		20	11.8	11.6	11.2	2.2	-	-	
		25	8.8	8.7	8.1	-	-	-	
JVJ07CI-P	Nozzle B (Standard)	5	21.5	21.0	20.7	20.4	12.8	3.9	64
		10	19.2	18.8	18.5	18.2	11.3	2.0	
		15	16.9	16.6	16.3	16.0	9.7	-	
		20	13.6	13.4	13.2	13.0	7.4	-	
		25	10.4	10.3	10.1	10.0	5.0	-	
	Nozzle C (High Pressure)	5	20.4	19.8	19.4	19.1	14.6	7.7	71
		10	18.1	17.6	17.3	17.1	13.6	6.5	
		15	15.9	15.4	15.2	15.0	12.6	5.2	
		20	12.7	12.4	12.2	12.1	10.8	3.3	
		25	9.5	9.3	9.2	9.1	9.0	1.4	
	Nozzle A (High Flow)	5	23.3	23.0	22.7	20.2	7.6	-	54
		10	20.7	20.3	20.0	17.4	3.8	-	
		15	18.1	17.7	17.3	14.6	-	-	
		20	14.8	14.5	14.2	10.8	-	-	
		25	11.5	11.3	11.1	7.0	-	-	
JVJ1CI-P	Nozzle B (Standard)	5	29.0	28.6	28.2	27.8	24.0	11.6	66
		10	25.5	25.0	24.8	24.5	21.2	7.7	
		15	21.9	21.5	21.3	21.1	18.5	3.8	
		20	17.6	17.2	16.9	16.7	13.8	1.9	
		25	13.2	12.9	12.6	12.3	9.2	-	
	Nozzle C (High Pressure)	5	28.7	28.2	27.9	27.6	26.8	15.5	72
		10	25.3	24.8	24.4	24.0	23.4	13.3	
		15	21.9	21.4	20.9	20.5	20.1	11.2	
		20	17.4	17.1	16.8	16.6	16.3	7.0	
		25	13.0	12.9	12.7	12.6	12.5	2.8	
	Nozzle A (High Flow)	5	30.3	29.9	29.5	29.2	19.5	-	59
		10	26.9	26.6	26.2	25.9	15.9	-	
		15	23.6	23.3	22.9	22.6	12.4	-	
		20	19.0	18.8	18.5	17.9	6.2	-	
		25	14.5	14.3	14.1	13.2	-	-	

Non-Submersible Pumps

Jet Pumps - Shallow Well VersaJet

J-CLASS VersaJet



CSA ENC 3
COF CSA 3



**Revolutionary Patent Pending
"Quick-Change" Jet Nozzle**

Features:

- Impeller with stainless steel insert, diffuser, jet nozzle and venturi are all molded with Noryl®. Noryl® thermoplastic is a proven dependable material known for its properties to increase efficiency and hydraulic performance.
- Heavy-duty cast iron case ensures optimum durability and long life
- Floating stainless steel eye seal for maximum performance and efficiency
- Powered by a high quality, industry proven, UL778 approved indoor/outdoor motors from A.O. Smith
- Revolutionary Patent Pending "Quick-Change" jet nozzle replacement system allows easy customization of the pump. Performance can be changed quickly from a high pressure to a high flow set-up without removing the plumbing or opening the case.
- Dual voltage motor can be set to run at either 115V or 230V
- Pressure switch is installed and set at 30/50 psi
- Built-in drain plug for easy winterizing and servicing
- Handles water temperatures up to 120 °F/49 °C and shut-off pressures up to 90 psi
- 1" NPT discharge, 1-1/4" NPT suction
- UL778 approved for indoor or outdoor use

Noryl® is a registered trademark of G.E.

Ordering Information:

(See pgs. 2-3 for model number explanation)

MODEL	HP	DISCHARGE/SUCTION	VOLTAGE	PUMP UNIT	
				ORDER NO.	WT.
JVJ05CI	1/2	1" x 1-1/4"	115/230	91160005	31
JVJ07CI	3/4	1" x 1-1/4"	115/230	91160007	34
JVJ1CI	1	1" x 1-1/4"	115/230	91160010	51
JVJ15CI	1.5	1" x 1-1/4"	115/230	91160015	56

Note: All weights in pounds.

Non-Submersible Pumps

Jet Pumps - Shallow Well

VersaJet

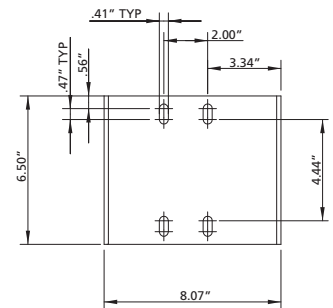
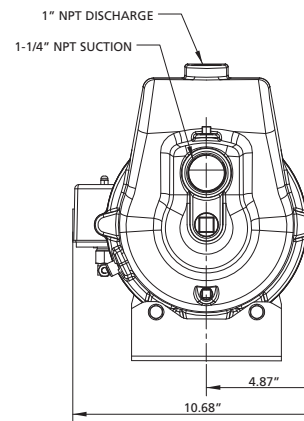
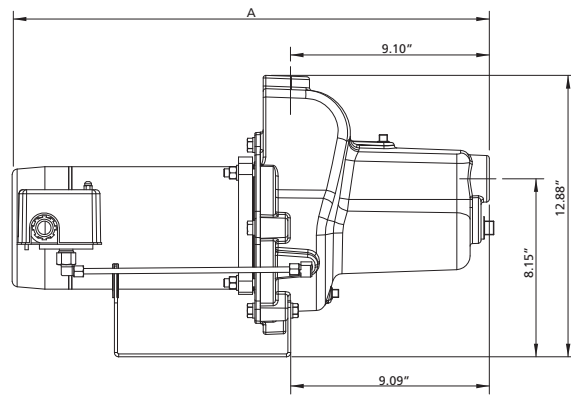
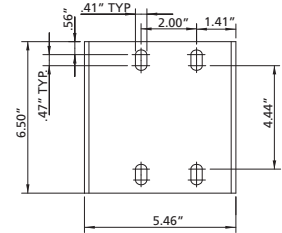
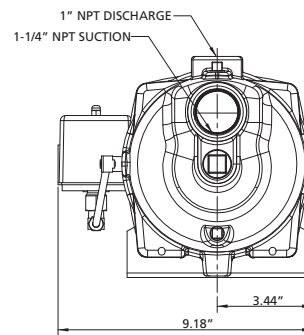
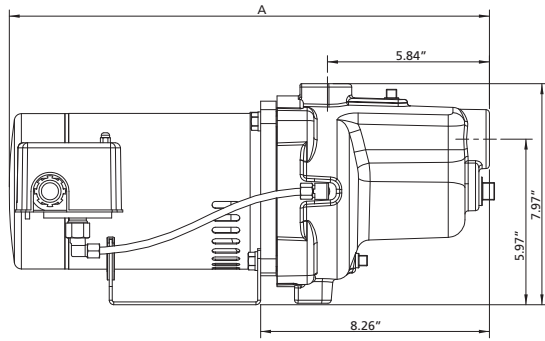
Performance Chart:

VJ 1" DISCHARGE 1.25" SUCTION			DISCHARGE PRESSURE - PSI						SHUT-OFF PRESSURE PSI
MODEL	NOZZLE	TOTAL SUCTION LIFT FT	10	20	30	40	50	60	
			GALLONS PER MINUTE						
JVJ05CI	Nozzle B (Standard)	5	10.8	10.5	10.1	8.5	4.9	2.1	70
		10	9.4	9.1	8.7	7.5	4.1	1.6	
		15	8.0	7.7	7.4	6.5	3.4	1.1	
		20	6.2	6.0	5.7	5.3	2.6	0.5	
		25	4.4	4.3	4.1	4.0	1.8	-	
	Nozzle C (High Pressure)	5	9.8	8.9	8.3	7.6	6.3	4.0	86
		10	8.3	7.5	7.1	6.6	5.7	3.5	
		15	6.8	6.2	5.9	5.7	5.1	3.0	
		20	5.3	5.0	4.8	4.6	4.3	2.6	
		25	3.8	3.8	3.7	3.6	3.5	2.2	
	Nozzle A (High Flow)	5	12.8	12.5	12.1	5.2	-	-	47
		10	11.4	11.1	10.8	3.6	-	-	
15		10.0	9.8	9.6	1.9	-	-		
20		8.0	7.7	6.8	1.0	-	-		
25		6.0	5.7	4.1	-	-	-		
JVJ07CI	Nozzle C (Standard)	5	16.3	15.6	15.1	14.1	9.0	3.8	70
		10	14.2	13.6	13.1	12.5	7.8	2.9	
		15	12.1	11.6	11.2	10.8	6.5	2.0	
		20	9.5	9.1	8.9	8.7	5.0	1.0	
		25	7.0	6.7	6.7	6.6	3.5	-	
	Nozzle D (High Pressure)	5	15.8	15.2	14.7	14.1	9.6	4.8	73
		10	13.9	13.2	12.8	12.4	8.5	3.9	
		15	11.9	11.1	10.8	10.6	7.5	3.0	
		20	9.2	8.8	8.6	8.5	6.2	1.8	
		25	6.5	6.5	6.4	6.4	4.8	0.6	
	Nozzle A (High Flow)	5	18.9	18.7	18.4	11.6	-	-	47
		10	16.8	16.6	16.3	8.0	-	-	
15		14.8	14.5	14.2	4.4	-	-		
20		11.8	11.6	11.2	2.2	-	-		
25		8.8	8.7	8.1	-	-	-		
JVJ1CI	Nozzle B (Standard)	5	21.5	21.0	20.7	20.4	12.8	3.9	64
		10	19.2	18.8	18.5	18.2	11.3	2.0	
		15	16.9	16.6	16.3	16.0	9.7	-	
		20	13.6	13.4	13.2	13.0	7.4	-	
		25	10.4	10.3	10.1	10.0	5.0	-	
	Nozzle C (High Pressure)	5	20.4	19.8	19.4	19.1	14.6	7.7	71
		10	18.1	17.6	17.3	17.1	13.6	6.5	
		15	15.9	15.4	15.2	15.0	12.6	5.2	
		20	12.7	12.4	12.2	12.1	10.8	3.3	
		25	9.5	9.3	9.2	9.1	9.0	1.4	
	Nozzle A (High Flow)	5	23.3	23.0	22.7	20.2	7.6	-	54
		10	20.7	20.3	20.0	17.4	3.8	-	
15		18.1	17.7	17.3	14.6	-	-		
20		14.8	14.5	14.2	10.8	-	-		
25		11.5	11.3	11.1	7.0	-	-		
JVJ15CI	Nozzle B (Standard)	5	29.0	28.6	28.2	27.8	24.0	11.6	66
		10	25.5	25.0	24.8	24.5	21.2	7.7	
		15	21.9	21.5	21.3	21.1	18.5	3.8	
		20	17.6	17.2	16.9	16.7	13.8	1.9	
		25	13.2	12.9	12.6	12.3	9.2	-	
	Nozzle C (High Pressure)	5	28.7	28.2	27.9	27.6	26.8	15.5	72
		10	25.3	24.8	24.4	24.0	23.4	13.3	
		15	21.9	21.4	20.9	20.5	20.1	11.2	
		20	17.4	17.1	16.8	16.6	16.3	7.0	
		25	13.0	12.9	12.7	12.6	12.5	2.8	
	Nozzle A (High Flow)	5	30.3	29.9	29.5	29.2	19.5	-	59
		10	26.9	26.6	26.2	25.9	15.9	-	
15		23.6	23.3	22.9	22.6	12.4	-		
20		19.0	18.8	18.5	17.9	6.2	-		
25		14.5	14.3	14.1	13.2	-	-		

Non-Submersible Pumps

Jet Pumps - Shallow Well VersaJet

Dimensions:



VERSAJET PRO DIMENSIONS	
HP	A
1/2	18.00
3/4	21.78
1	22.66

VERSAJET DIMENSIONS	
HP	A
1/2	17.25
3/4	18.00
1	21.78
1.5	22.66

Note: Dimensions will vary according to motor manufacturer.

Non-Submersible Pumps

Jet Pumps - Shallow Well Cyclone Series

J-CLASS

Cyclone Series

Features:

- Available in non-corrosive thermoplastic
- Replaceable in-line nozzle/venturi design for maximum hydraulic efficiency and ease of service
- Self cleaning, anti-clogging injector screen
- Thermoplastic impeller and diffuser ensure increased hydraulic performance
- Floating stainless steel eye seal for maximum performance and efficiency
- Square-flange mounting provides easy serviceability without disturbing the plumbing
- Built-in drain plug for easy winterizing and servicing
- Mechanical shaft seal allows positive protection against leaking
- Order pressure gauge separately
- Pressure switch is installed and set at 20/40 psi
- Handles water temperatures up to 120 °F/49 °C and working pressure up to 75 psi
- Connections:
 - 1" NPT discharge
 - 1-1/4" NPT suction

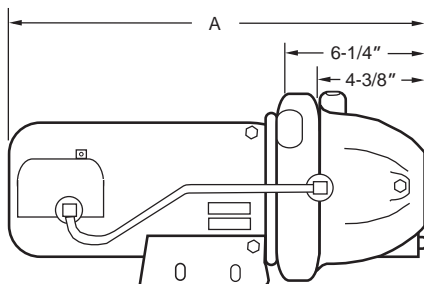
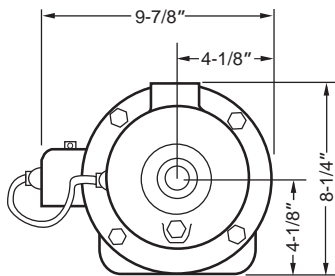
Dimensions:

MODEL NO.	HP	A
JCY05P	1/2	17-5/8"
JCY07P	3/4	18-1/4"

Note: Dimensions will vary according to motor manufacturer.



NRTL/C
CSA 108
UL 778



Non-Submersible Pumps

Jet Pumps - Shallow Well Cyclone Series

Ordering Information:

(See pgs. 2-3 for model number explanation)

PLASTIC PUMP BODY					
MODEL NO.	HP	DISCHARGE X SUCTION	VOLTAGE	PUMP UNIT	
				ORDER NO.	WT.
JCY05P	1/2	1" x 1-1/4"	115/230	91020050	23
JCY07P	3/4	1" x 1-1/4"	115/230	91020075	31

Note: All weights in pounds.

Performance Chart:

HP	TOTAL SUCTION LIFT FT	DISCHARGE PRESSURE - PSI								SHUT-OFF PRESSURE PSI
		30	35	40	45	50	55	60	65	
		GALLONS PER MINUTE								
1/2	5	12.0	10.7	9.1	7.2	4.9	2.8	0.9	-	62
	10	-	10.0	8.4	6.3	3.9	1.9	-	-	60
	15	-	-	7.7	5.3	3.0	0.9	-	-	57
	20	-	-	6.4	4.3	2.2	0.2	-	-	55
	25	-	-	5.0	3.3	1.4	-	-	-	53
3/4	5	-	16.0	14.4	12.6	10.6	8.3	5.0	1.8	68
	10	-	-	13.5	11.8	9.7	6.9	3.6	0.2	65
	15	-	-	-	11.0	8.8	5.4	2.2	-	63
	20	-	-	-	9.0	7.2	3.9	0.8	-	60
	25	-	-	-	-	5.6	2.3	-	-	58

Non-Submersible Pumps

Jet Pumps - Convertible RM2 Series

J-CLASS

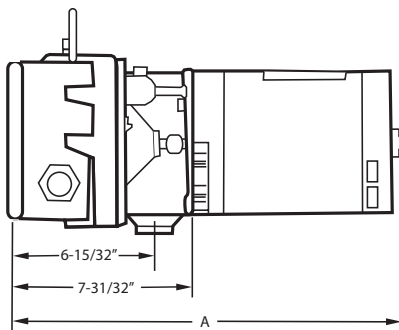
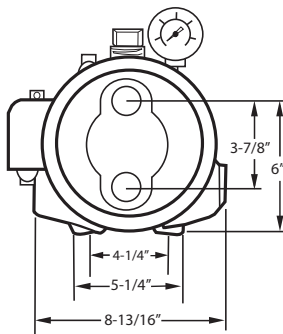
RM2 Series



SA
NRTL/C
CSA 108
UL 778

Features:

- Heavy-duty cast iron case and bronze impeller ensure optimum durability
- Thermoplastic diffuser is molded for efficiency and dependability
- Screw-in injector for easy conversion from shallow to deep well installation
- Shaft coupling designed for easy removal of pump motor
- Mechanical shaft seal ensures leakproof fit and continuous water lubrication
- High service factor 56C-frame motor for maximum performance
- Hardware kit allows for versatility of installation and includes pressure gauge, plugs, shallow well injector, and bypass plug
- Adjustable pressure switch is factory-installed at 30/50 psi
- Connections:
1-1/4" NPT suction
1" NPT discharge
1" NPT drive line
- Maximum temperature of 140 °F/60 °C



Dimensions:

MODEL NO.	HP	A
JRM05CI-C	1/2	18.65"
JRM07CI-C	3/4	19.15"
JRM1CI-C	1	19.65"

Note: Dimensions will vary according to motor manufacturer.

Non-Submersible Pumps

Jet Pumps - Convertible RM2 Series

Ordering Information:

(See pgs. 2-3 for model number explanation)

MODEL NO.	HP	DISCHARGE X SUCTION	VOLTAGE	PUMP UNIT		DEEP WELL INJECTOR		
				ORDER NO.	WT.	SUCTION LIFT	ORDER NO.	WT.
JRM05CI-C	1/2	1" x 1-1/4"	115/230	91110874	48	30 - 60 ft	147E1120	7
						50 - 100 ft	147E0915	7
JRM07CI-C	3/4	1" x 1-1/4"	115/230	91110882	51	30 - 60 ft	147E1023	7
						50 - 100 ft	147E1118	7
JRM1CI-C	1	1" x 1-1/4"	115/230	91110890	53	30 - 60 ft	147E1125	7
						50 - 100 ft	147E1120	7

Note: 1. Order deep well injector separately.
2. Minimum inside well diameter requirement of 4" for deep well injectors.
3. All weights in pounds.

OPTIONAL INJECTOR FOR HIGH HEAD PERFORMANCE		
INJECTOR ORDERING NO.	MODEL NO.	HP
18-1278-03-R	JRM1CI-C	1

PRESSURE GAUGE	
ORDERING NO.	PRESSURE READING
9193-4018	0-100 psi

Required for Deep Well Installations:



Parallel Pipe Injectors

Non-Submersible Pumps

Jet Pumps - Convertible

RM2 Series

Shallow Well Performance:

RM2 1" DISCHARGE X 1-1/4" SUCTION			DISCHARGE PRESSURE - PSI									SHUT-OFF PRESSURE PSI
MODEL NO.	INJECTOR ORDER NO.	TOTAL SUCTION LIFT FT	30	35	40	45	50	55	60	65	70	
			GALLONS PER MINUTE									
JRM05CI-C 1/2 hp	18-1278-03-R	5	15.5	13.5	11	8.5	6	4	2			65
		10	13.5	12.5	10	7.5	5	3	1			63
		15	11.5	10.5	8.5	6	4	2				60
		20	9.5	9	7.5	5	3	1				58
		25	7	7	6	4	2					55
JRM07CI-C 3/4 hp	18-1279-02-R	5	19	18.5	18	16	12.5	9.5	6.5	3.5		70
		10	16.5	16	15.5	14	10	8	4.5	1.5		68
		15	14.5	14	13.5	12.5	9.5	6.5	3.5			66
		20		11.5	11	10	8	5	2			63
		25			8.5	8	6.5	3.5	1			61
JRM1CI-C 1 hp	18-1280-09-R	5	23	22.5	22	21.5	20	17.5	14	10.5	7	81
		10		19.5	19	18.5	17.5	15.5	12.5	9	5.5	78
		15		16.5	16	15.5	15	13.5	11	7.5	4.5	76
		20			13.5	13	12.5	11.5	9.5	6	2.5	74
		25				10	10	9.5	7.5	4.5	1	71

MODEL NO.	INJECTOR ORDER NO.	TOTAL SUCTION LIFT FT	DISCHARGE PRESSURE - PSI								SHUT-OFF PRESSURE PSI	
			50	55	60	65	70	75	80	85		90
GALLONS PER MINUTE												
JRM1CI-C High Head 1 hp	18-1278-03-R	5			11	10	7.5	5.5	3.5	1.5		90
		10			10	8.5	6.5	4.5	2.5			88
		15			9	7.5	5.5	3.5	1.5			84
		20			8	6	4	2				81
		25			7	5	3	1				78

- Note:**
1. Pressure switch pre-set 30-50 psi.
 2. The appropriate injector is included with the units.
 3. Maximum pump working pressure is 150 psi.
 4. All the above discharge pressures were measured using 1.25" PVC suction pipe and 1.25" foot valve.

Non-Submersible Pumps

Jet Pumps - Convertible RM2 Series

Deep Well Performance:

RM2 1" DISCHARGE X 1-1/4" SUCTION 1" DRIVE PIPE			DISCHARGE PRESSURE - PSI									SHUT-OFF PRESSURE PSI	INJ. MIN. OPERATING PRESSURE
MODEL NO.	INJECTOR ORDER NO.	TOTAL SUCTION LIFT FT	30	35	40	45	50	55	60	65	70		
			GALLONS PER MINUTE										
JRM05CI-C 1/2 hp	147E-1120	30	9	7	5.5	4	2.5	1.5				65	18
		40	7.5	6	4	3	1.5				59		
		50	6	4.5	3	2	1				56		
		60	5	3.5	2	1					52		
	147E-0915	50	6	5	4	3	2.5	2	1			74	23
		60	5	4	3.5	2.5	2	1			70		
		70	4	3.5	2.5	2	1.5				65		
		80	3.5	3	2	1.5	1				61		
		90	3	2	1.5	1				57			
		100	2.5	1.5	1					52			
JRM07CI-C 3/4 hp	147E-1023	30	15.5	13.5	11	8.5	6.5	4	2			66	18
		40	13.5	11.5	9	7	4.5	2.4			61		
		50	11	9.5	7	5	3				57		
		60	9	7.5	5	3	1				53		
	147E-1118	50	9	8	7	6	4.5	3.5	3	2	1	80	23
		60	8	7	6	4.5	4	3	2	1.5		77	
		70	6.5	5.5	4.5	3.5	3	2	1		72		
		80	6	5	4	3	2	1.5			67		
		90	5	4	3	2	1.5			63			
		100	4	3	2.5	1.5	1			30			
JRM1CI-C 1 hp	147E-1125	30	19.5	17	14.5	12	9.5	7	5			72	30
		40	17.5	15	12.5	10	7.5	5	3			67	
		50	15.5	13	10.5	8	5.5	3.5	1			63	
		60	13	10.5	8.5	6	3.5	1.5			59		
	147E-1120	50		11	9.5	8	6.5	5	4	3	2	82	36
		60		10	8	7	5.5	4	3	2	1	78	
		70		8	7	6	4.5	3	2	1		73	
		80		7	6	4.5	3.5	2	1.5			70	
		90		6	5	3.5	2.5	1.5			65		
		100		5	4	3	1.5				61		

- Note:** 1. Pressure switch pre-set 30-50 psi.
 2. Maximum pump working pressure is 150 psi.
 3. All the above discharge pressures were measured using 1.25" PVC suction pipe and 1.25" foot valve and 1" drive pipe.

Non-Submersible Pumps

Jet Pumps - Convertible RP2 Series



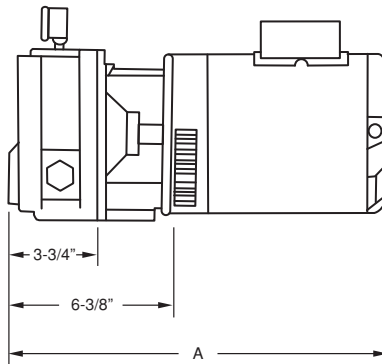
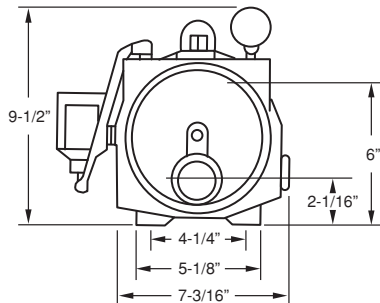
SA
NRTL/C
CSA 108
UL 778

J-CLASS

RP2 Series

Features:

- Heavy-duty cast iron construction for long life
- Thermoplastic impeller and diffuser for increased efficiency
- Cast-iron case will handle booster pump applications up to 150 psi
- Shaft coupling designed for easy removal of pump motor
- Mechanical shaft seal ensures leakproof fit
- High service factor 56C-frame motors for maximum performance
- "Convertible" hardware includes pressure gauge, plugs, bypass plug, and shallow well injector (screw-in injector allows easy conversion from shallow to deep well installation.)
- Adjustable pressure switch is factory-installed at 20/40 psi
- Connections:
1-1/4" NPT suction
1" NPT discharge
1" NPT drive line
- Maximum temperature of 140 °F/60 °C
For pressure gauges, see page 103.



Dimensions:

MODEL NO.	HP	A
JRP05CI-C	1/2	14-3/8"
JRP07CI-C	3/4	15-3/8"

Note: Dimensions will vary according to motor manufacturer.

Non-Submersible Pumps

Jet Pumps - Convertible RP2 Series

Ordering Information:

(See pgs. 2-3 for model number explanation)

MODEL NO.	HP	DISCHARGE X SUCTION	VOLTAGE	PUMP UNIT		DEEP WELL INJECTOR		
				ORDER NO.	WT.	SUCTION LIFT	ORDER NO.	WT.
JRP05CI-C	1/2	1" x 1-1/4"	115/230	91021626	40	30 - 60 ft	147E0919	7
						60 - 90 ft	147E1018	7
JRP07CI-C	3/4	1" x 1-1/4"	115/230	91021634	42	30 - 60 ft	147E1123	7
						60 - 90 ft	147E1118	7

- Note:**
1. Order deep well injector separately.
 2. Minimum inside well diameter requirement of 4" for deep well injectors.
 3. All weights in pounds.

OPTIONAL INJECTOR FOR HIGH HEAD PERFORMANCE		
INJECTOR ORDERING NO.	MODEL NO.	HP
18-1247-01-R	JRP07CI-C	3/4

PRESSURE GAUGE	
ORDERING NO.	PRESSURE READING
9193-4018	0-100 psi

Non-Submersible Pumps

Jet Pumps - Convertible

RP2 Series

Shallow Well Performance:

RP2 1" DISCHARGE X 1-1/4" SUCTION			DISCHARGE PRESSURE - PSI									SHUT-OFF PRESSURE PSI
MODEL NO.	INJECTOR ORDER NO.	TOTAL SUCTION LIFT FT	30	35	40	45	50	55	60	65	70	
			GALLONS PER MINUTE									
JRP05CI-C 1/2 hp	18-1247-01-R	5	13	12.5	11.5	10	7.5	5.5	3.5	1.5		69
		10	11.5	11	10	8.5	6.5	4.5	2.5			67
		15	10	9.5	9	7.5	5.5	3.5	1.5			64
		20	8	8	7.5	6.5	4.5	2.5				62
		25	6	6	5.5	5	3.5	1.5				59
JRP07CI-C 3/4 hp	18-1248-00-R	5	20	18.5	16	12.5	8	1.5				56
		10	17.5	16.5	14	10	4					52
		15	16	15	12	8						50
		20	13	12	10	4						47
		25		9.5	7							43
JRP07CI-C High Head 3/4 hp	18-1247-01-R	5		12	12	12	11	9	7	5	2.5	76
		10		11	10.5	10.5	10	8	6	4	1.5	74
		15		9.5	9	9	9	7	5	3		71
		20		8	8	7.5	7.5	6	4	2		69
		25		6.5	6.5	6	6	5	3	1		67

Note: 1. The appropriate injector is included with the units.

2. All the above discharge pressures were measured using 1.25" PVC suction pipe and 1.25" foot valve.

Non-Submersible Pumps

Jet Pumps - Convertible RP2 Series

Deep Well Performance:

RP2 1" DISCHARGE X 1-1/4" SUCTION/ 1" DRIVE PIPE			DISCHARGE PRESSURE - PSI								SHUT-OFF PRESSURE PSI	INJ. MIN. OPERATING PRESSURE
MODEL NO.	INJECTOR ORDER NO.	TOTAL SUCTION LIFT FT	30	35	40	45	50	55	60	65		
			GALLONS PER MINUTE									
JRP05CI-C 1/2 hp	147E-0919	30	8.5	7	5.5	4.5	3	2	1		66	20
		40	7	6	4.5	3.5	2	1			62	
		50	6	5	3.5	2	1				57	
		60	5	3.5	2.5	1.5					53	
JRP05CI-C 1/2 hp	147E-1018	60	6	5	4	3	2	1			66	23
		70	5	4	3	2	1.5				62	
		80	4	3	2	1.5					56	
		90	3	2	1.5						51	
JRP07CI-C 3/4 hp	147E-1123	30	12	10	8.5	6.5	5	3			62	28
		40	10	8.5	7	5	3	1			58	
		50	8.5	7	5	3	1				54	
		60	6.5	5	3	1.5					49	
JRP07CI-C 3/4 hp	147E-1118	60	7.5	6.5	6	5	4	3	2.5	1.5	75	30
		70	7	6	5	4	3	2	1		69	
		80	5.5	4	3.5	2.5	2	1			64	
		90	4.5	3.5	2.5	2	1				57	

Note: 1. Deep well injectors must be ordered separately.
2. All the above discharge pressures were measured using 1.25" PVC suction pipe and 1.25" foot valve and 1" drive pipe.

Non-Submersible Pumps

Jet Pumps - Convertible SRP3 Series

J-CLASS

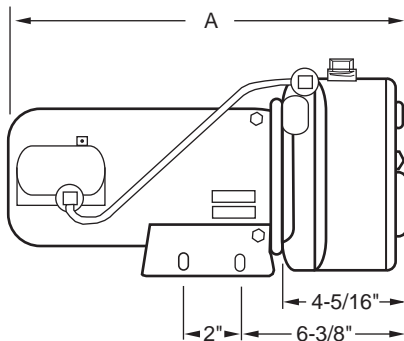
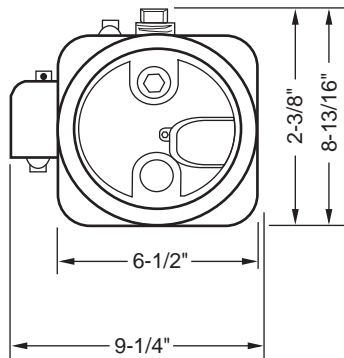
SRP3 Series



NRTL/C
CSA 108
UL 778

Features:

- Thermoplastic impeller assures increased hydraulic efficiency
- Thermoplastic diffuser is molded for efficiency and dependability
- Cast-iron case for maximum durability
- Square-flange motor with threaded shaft for direct mounting of impeller
- Mechanical shaft seal ensures leakproof fit
- Pressure switch is factory installed at 20/40 psi
- "Convertible" hardware includes plugs, bypass plug, and shallow well injector. (Screw-in injector allows for easy conversion from shallow to deep well installation)
- Pressure gauge can be ordered separately
- Connections:
1-1/4" NPT suction
1" NPT discharge
1" NPT drive line
- Maximum temperature of 140 °F/60 °C



Dimensions:

MODEL NO.	HP	A
JSRP05CI-C	1/2	15-3/16"
JSRP07CI-C	3/4	16-5/16"
JSRP1CI-C	1	16-3/16"

Note: Dimensions will vary according to motor manufacturer.

Non-Submersible Pumps

Jet Pumps - Convertible SRP3 Series

Ordering Information:

(See pgs. 2-3 for model number explanation)

MODEL NO.	HP	DISCHARGE X SUCTION	VOLTAGE	PUMP UNIT		DEEP WELL INJECTOR		
				ORDER NO.	WT.	SUCTION LIFT	ORDER NO.	WT.
JSRP05CI-C	1/2	1" x 1-1/4"	115/230	91021592	36	30 - 60 ft	147E1118	7
						60 - 90 ft	147E1115	7
JSRP07CI-C	3/4	1" x 1-1/4"	115/230	91021600	38	30 - 60 ft	147E1123	7
						60 - 90 ft	147E1118	7
JSRP1CI-C	1	1" x 1-1/4"	115/230	91021618	41	30 - 60 ft	147E1123	7
						60 - 90 ft	147E1118	7
JSRPH05CI-C	1/2	1" x 1-1/4"	115/230	91021758	36	High head configuration JSRPH pumps are for shallow well application only.		
JSRPH07CI-C	3/4	1" x 1-1/4"	115/230	91021766	38			
JSRPH1CI-C	1	1" x 1-1/4"	115/230	91021774	41			

- Note:** 1. Order deep well injector separately.
2. Minimum inside well diameter requirement of 4" for deep well injectors.
3. All weights in pounds.

OPTIONAL INJECTOR FOR HIGH HEAD PERFORMANCE		
INJECTOR ORDERING NO.	MODEL NO.	HP
18-1200-12-R	JSRPH05CI-C	1/2
18-1247-01-R	JSRPH07CI-C	3/4
18-1247-01-R	JSRPH1CI-C	1

PRESSURE GAUGE	
ORDERING NO.	PRESSURE READING
9193-4018	0-100 psi

Required for Deep Well Installations:



Parallel Pipe Injectors

Non-Submersible Pumps

Jet Pumps - Convertible

SRP3 Series

Shallow Well Performance:

MODEL NO.	INJECTOR ORDER NO.	TOTAL SUCTION LIFT FT	DISCHARGE PRESSURE - PSI									SHUT-OFF PRESSURE PSI
			30	35	40	45	50	55	60	65	70	
			GALLONS PER MINUTE									
JSRP05CI-C 1/2 hp	18-1247-01-R	5	12	10	7.5	5	2					55
		10	11	9	6	3.5						53
		15	10	8	5	2						51
		20	9.5	6.5	4	1						49
		25	8	5	2							47
JSRP07CI-C 3/4 hp	18-1248-00-R	5	21.5	19.5	15.5	10.5	5					53
		10	21	18	13.5	8						51
		15	20	16.5	11	6.5						49
		20	18	14	9	2						47
		25	16	12	6							45
JSRP1CI-C 1 hp	18-1701-00-R	5	19.8	18.8	16.6	14	10.3	5.5				60
		10	18.1	17.5	15.6	12.6	8.6	3.5				58
		15	15	14.5	14.2	10.8	6.6	1.3				56
		20	12.6	12.5	12.7	8.8	4.1					54
		25	10	9.8	9.3	6.8	1.6					52
JSRPH05CI-C High Head 1/2 hp	18-1200-12-R	5	6	5.6	5	4.3	3.5	2.6	1.6	0.6		68
		10	5.3	4.9	4.6	4	3	1.9	0.9			65
		15	4.9	4.6	4.2	3.5	2.5	1.5	0.6			63
		20	4.4	4.2	3.9	3	2.1	1.1	0.3			61
		25	3.4	3.2	3	2.3	1.4	0.6				58
JSRPH07CI-C High Head 3/4 hp	18-1247-01-R	5			11.5	10.8	10	8.6	7	4.5	2	69
		10				10.1	9	7	5	2.8	0.5	66
		15				9.2	8	6.2	4.2	2		64
		20				8.2	7	5.4	3	0.5		61
		25				5.9	5	3.5	1.5			58
JSRPH1CI-C High Head 1 hp	18-1247-01-R	5		12	12	12	11	9	7	5	2.5	76
		10		11	10.5	10.5	10	8	6	4	1.5	74
		15		9.5	9	9	9	7	5	3		71
		20		8	8	7.5	7.5	6	4	2		69
		25		6.5	6.5	6	6	5	3	1		67

Note: 1. The appropriate shallow well injector is included with the units.
 2. All the above discharge pressures were measured using 1.25" PVC suction pipe and 1.25" foot valve.

Non-Submersible Pumps

Jet Pumps - Convertible SRP3 Series

Deep Well Performance:

SRP3 1" DISCHARGE X 1-1/4" SUCTION 1" DRIVE PIPE			DISCHARGE PRESSURE - PSI								SHUT-OFF PRESSURE PSI
MODEL NO.	INJECTOR ORDER NO.	TOTAL SUCTION LIFT FT	30	35	40	45	50	55	60	65	
			GALLONS PER MINUTE								
JSRP05CI-C 1/2 hp	Cast Iron 147E-1118	30	6.0	4.6	3.6	2.7	1.8	0.9	0.1		61
		40	4.8	3.6	2.7	1.8	1.0	0.2			57
		50	4.0	2.8	2.0	1.1	0.3				52
		60	3.0	1.9	1.1	0.3					47
	Cast Iron 147E-1115	60	2.6	2.0	1.5	0.9	0.4				54
		70	2.1	1.6	1.1	0.5					51
		80	1.6	1.1	0.6	0.1					46
		90	1.1	0.6	0.1						42
JSRP07CI-C 3/4 hp	Cast Iron 147E-1123	30	12.5	10.3	8.1	6.0	3.8	1.9	0.1		61
		40	10.8	8.5	6.4	4.2	2.2	0.4			56
		50	9.0	6.6	4.5	2.4	0.6				52
		60	7.0	4.8	2.9	1.0					48
	Cast Iron 147E-1118	60	6.9	5.7	4.5	3.5	2.5	1.6	0.8	0.1	66
		70	5.8	4.7	3.6	2.7	1.9	1.0	0.3		63
		80	4.8	3.7	2.7	2.0	1.1	0.3			58
		90	3.7	2.9	2.1	1.3	0.5				54
JSRP1CI-C 1 hp	Cast Iron 147E-1123	30	13.6	11.3	9.5	7.3	5.3	3.2	1.6		65
		40	11.3	9.5	7.3	5.3	3.5	1.6			60
		50	9.0	7.5	5.6	3.7	1.9	0.1			56
		60	7.0	6.0	4.2	2.3	0.5				52
	Cast Iron 147E-1118	60	7.4	6.1	5.1	4.1	3.3	2.4	1.6	0.8	70
		70	6.5	5.4	4.5	3.5	2.6	1.8	1.0	0.3	67
		80	5.4	4.4	3.5	2.6	1.8	1.0	0.3		62
		90	4.4	3.5	2.8	1.9	1.1	0.3			57

Note: 1. Deep well injectors must be ordered separately.
2. All the above discharge pressures were measured using 1.25" PVC suction pipe, 1.25" foot valve and 1" drive pipe.

Non-Submersible Pumps

Jet Pumps - Convertible C Series

J-CLASS

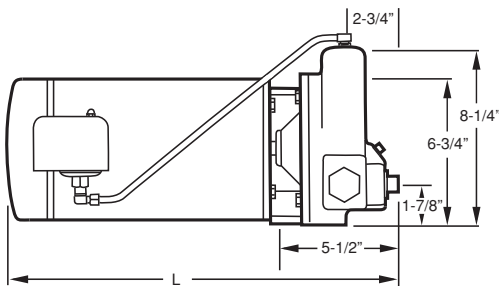
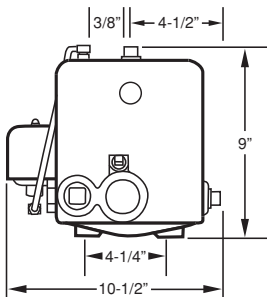
C Series

Single Stage Convertible Jet Pump:

Available in 1/3, 1/2 or 3/4 hp models. The C Series pump is equipped with a brass impeller for high performance and longevity. The C Series pump delivers up to 18 gallons per minute from shallow well installations and 16 gallons per minute from deep well applications.

Features:

- Heavy-duty iron construction for long life
- Brass impeller for high performance
- Thermoplastic diffuser is molded for efficiency and dependability
- Screw-in injector for easy conversion from shallow to deep well installation
- Motor with stainless steel shaft for direct mounting or impeller
- Mechanical shaft seal ensures leakproof fit and continuous lubrication
- Factory assembled as shallow well unit
- Hardware kit allows for versatility of installation. Includes pressure gauge and plugs
- Deep well injector must be ordered separately
- Connections:
1-1/4" NPT suction
3/4" NPT discharge
1" NPT pressure (applies to deep well installations)



Dimensions:

MODEL	HP	L
JC03CI-C	1/3	16.88"
JC05CI-C	1/2	17.13"
JC07CI-C	3/4	17.75"

Note: Dimensions will vary according to motor manufacturer.

Non-Submersible Pumps

Jet Pumps - Convertible C Series

Ordering Information:

(See pgs. 2-3 for model number explanation)

MODEL NO.	HP	DISCHARGE X SUCTION	VOLTAGE	PUMP UNIT		DEEP WELL INJECTOR		
				ORDER NO.	WT.	SUCTION LIFT	ORDER NO.	WT.
JC03CI-C	1/3	1" x 1-1/4"	115/230	91060012	45	20 - 60 ft	147E0916	7
						60 - 90 ft	147E0914	7
JC05CI-C	1/2	1" x 1-1/4"	115/230	91060020	45	20 - 60 ft	147E1018	7
						60 - 90 ft	147E1117	7
						60 - 90 ft	147E1115	7
JC07CI-C	3/4	1" x 1-1/4"	115/230	91060053	50	20 - 60 ft	147E1124	7
						50 - 90 ft	147E1019	7
						80-120 ft	147E0914	7

- Note:**
1. Order deep well injector separately.
 2. Minimum inside well diameter requirement of 4" for deep well injectors.
 3. All weights in pounds.

PRESSURE GAUGE	
ORDERING NO.	PRESSURE READING
9193-4018	0-100 psi

Required for Deep Well Installations:



Parallel Pipe Injectors

Non-Submersible Pumps

Jet Pumps - Convertible

C Series

C Series Performance - Shallow Well Self-Priming:

MODEL NO.	INJECTOR ORDER NO.	TOTAL SUCTION LIFT FT	DISCHARGE PRESSURE - PSI					SHUT-OFF PRESSURE PSI
			30	35	40	45	50	
			U.S. GALLONS PER HOUR/MINUTE					
JC03CI-C 1/3 hp	18-1705-06-R Code 1018	5	450/7.5	420/7	370/6	290/6	200/3.5	62
		10	400/6.5	360/6	320/5.5	250/4	175/3	60
		15	340/5.5	330/5.5	300/5	230/4	150/2.5	58
		20	280/4.5	270/4.5	250/4	190/3	110/2	56
		25	190/3	190/3	180/3	130/2	80/1.5	54
JC05CI-C 1/2 hp	18-1706-05-R Code 1021	5	710/12	710/12	620/10.5	480/8	350/6	63
		10	625/10.5	620/10.5	540/9	410/7	300/5	61
		15	535/9	530/9	480/8	360/6	240/4	59
		20	440/7.5	430/7	410/7	300/5	190/3	57
		25	315/5.6	315/5.5	310/5	220/3.5	140/2.5	55
JC07CI-C 3/4 hp	18-1707-04-R Code 1027	5	1100/18.5	1060/17.5	930/15.5	760/12.5	580/9.5	61
		10	990/16.5	950/16	840/14	680/11.5	500/8.5	59
		15	860/14.5	840/14	770/13	610/10	400/6.5	57
		20	700/11.5	690/11.5	620/10.5	510/8.5	300/5	55
		25	495/8.5	495/8.5	450/7.5	410/7	170/3	53

- Note:**
1. The appropriate shallow well injector is included with each model.
 2. Pressure switch pre-set 30-50 psi
 3. Maximum pump working pressure is 150 psi

Non-Submersible Pumps

Jet Pumps - Convertible C Series

Deep Well Performance - with Parallel Pipe Injector (4" min. i.d. well):

MODEL NO.	INJECTOR ORDER NO.	TOTAL SUCTION LIFT FT	DISCHARGE PRESSURE - PSI					SHUT-OFF PRESSURE PSI
			30	35	40	45	50	
			U.S. GALLONS PER HOUR/MINUTE					
JC03CI-C 1/3 hp	147E-0916	20	370/6	290/5	240/4	190/3	140/2	62
		30	310/5	240/4	190/3	150/2.5	110/2	60
		40	240/4	190/3	160/2.5	110/2	70/1	58
		50	200/3.5	150/2.5	110/2	70/1	-	56
		60	160/2.5	120/2	80/1.5	-	-	54
	147E-0914	60	190/3	160/2.5	130/2	100/1.5	90/1.5	63
		70	150/2.5	130/2	100/1.5	80/1	50/1	61
		80	130/2	110/2	80/1	60/1	-	59
		90	100/1.5	80/1	60/1	-	-	57
JC05CI-C 1/2 hp	147E-1018	20	630/10.5	510/8.5	430/7	350/6	280/4.5	61
		30	510/8.5	410/7	330/5.5	260/4	210/3.5	59
		40	420/7	330/5.5	270/4.5	210/3.5	150/2.5	57
		50	340/5.5	280/4.5	230/4	170/3	110/2	55
		60	260/4.5	220/3.5	170/3	120/2	60/1	53
	147E-1117	60	300/5	240/4	200/3.5	180/3	140/2.5	70
		70	240/4	200/3.5	180/3	150/2.5	120/2	66
		80	220/3.5	180/3	150/2.5	120/2	80/1.5	61
		90	170/3	140/2.5	110/2	80/1.5	50/1	56
	147E-1115	90	170/3	140/2.5	110/2	80/1.5	60/1	64
		100	140/2.5	110/2	90/1.5	60/1	40/0.5	60
		110	110/2	80/1.5	60/1	40/0.5	-	56
		120	90/1.5	60/1	40/0.5	-	-	52
JC07CI-C 3/4 hp	147E-1124	20	960/16	840/14	710/12	600/10	470/8	69
		30	830/14	720/12	600/10	470/8	350/6	64
		40	700/11.5	590/10	460/7.5	350/6	230/4	59
		50	600/10	480/8	360/6	240/4	120/2	55
		60	460/7.5	350/6	240/4	120/2	-	50
	147E-1019	50	570/9.5	500/8.5	440/7.5	380/6.5	320/5.5	74
		60	480/8	420/7	360/6	300/5	240/4	70
		70	410/7	350/6	290/5	230/4	180/3	66
		80	350/6	290/5	230/4	180/3	120/2	61
		90	270/4.5	220/3.5	160/2.5	120/2	70/1	56
	147E-0914	80	300/6	250/4	210/3.5	180/3	170/3	87
		90	240/4	210/3.5	200/3.5	180/3	160/2.5	83
		100	210/3.5	200/3.5	180/3	160/2.5	130/2	80
		110	200/3.5	180/3	160/2.5	130/2	110/2	76
120		160/2.5	150/2.5	130/2	110/2	90/1.5	72	

Non-Submersible Pumps

Jet Pumps - Accessories

Ordering Information



Parallel Pipe Injectors



4-in-1 Foot Valve



Horizontal Check Valve

Ordering Information:

DEEP WELL 2-PIPE INJECTORS FOR 4" WELLS			
PUMP SERIES	SUCTION LIFT	ORDER NO.	WT.
JC03	60 - 90 ft	147E0914	7
JC07	80 - 120 ft	147E0914	
JRM05	50 - 100 ft	147E0915	
JC03	20 - 60 ft	147E0916	
JC05	20 - 60 ft	147E1018	
JC07	50 - 90 ft	147E1019	
JRM07	30 - 60 ft	147E1023	
JSRP05	60 - 90 ft	147E1115	
JC05	90 - 120 ft	147E1115	
JC05	60 - 90 ft	147E1117	
JSRP05	30 - 60 ft	147E1118	
JRM07	50 - 100 ft	147E1118	
JSRP07, JSRP1	60 - 90 ft	147E1118	
JRM05	30 - 60 ft	147E1120	
JRM1	50 - 100 ft	147E1120	
JSRP07, JSRP1	30 - 60 ft	147E1123	
JC07	20 - 60 ft	147E1124	
JRM1	30 - 60 ft	147E1125	

Note: Injector kit includes: Cast iron body, thermoplastic nozzle and venturi, bronze foot valve.

ACCESSORY DESCRIPTION	ORDER NO.	WT.
4-in-1 Foot Valve, 3/4 - 1.5"	21339	1
Cast Iron Horizontal Check Valve, Poppet Type Bronze, 1.25" F x 1.25" M	91980680	4

Note: For touch up paint see your local Sherwin Williams paint store for part #1415066. All weights in pounds.

Non-Submersible Pumps

Jet Pumps - Accessories Ordering Information



Furnas Pressure Switch



Global Pressure Switch



Pressure Gauge



Shallow Well Injector

Ordering Information:

SCREW-IN SHALLOW WELL INJECTORS			
PUMP SERIES	INJ. CODE	ORDER NO.	WT.
JC03, JSRPH05	1018	18-1705-06-R	0.5
JSRP05, JSRPH07, JSRPH1	1023	18-1247-01-R	
JSRP07	1034	18-1248-00-R	
JC07	1027	18-1707-04-R	
JRM05, JRM1	1024	18-1278-03-R	
JRM07	1027	18-1279-02-R	
JRM1	1028	18-1280-09-R	
JC05	1021	18-1706-05-R	
JSRP1	1234	18-1701-00-R	

PRESSURE SWITCHES			
DESCRIPTION	PSI SETTING	ORDER NO.	WT.
Global Series	20/40	PRSW2040	1
	30/50	PRSW3050	1
	40/60	PRSW4060	1
Furnas Pro Series	20/40	69ES1AZ2040	1
	30/50	69ES1AZ3050	1
	40/60	69ES1AZ4060	1
Pressure Gauge, 0 -100 psi, 1/4" b.m.		91934018	1
External Control Valve		91982538	2

Note: All weights in pounds.

Non-Submersible Pumps

Jet Pumps - Accessories

Ordering Information

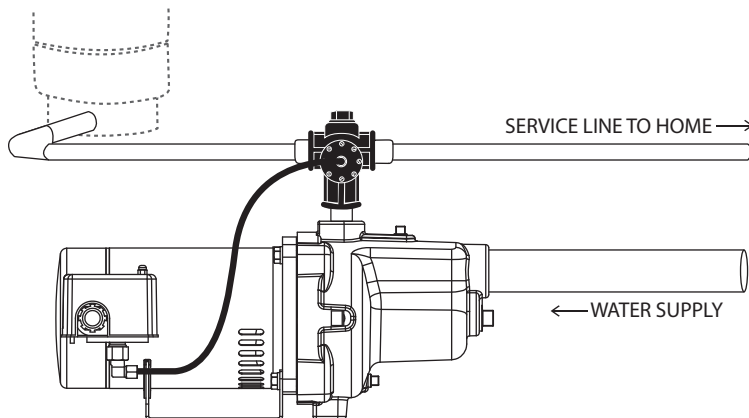
AQ80



Works at any flow rate above 1/2 gpm. Provides constant pressure at each specific flow rate delivered by the pump. (Pressure will be slightly different for each flow rate.) A pressure tank is recommended for optimum performance. Maximum operating pressure: 80 psi. (If installed with a submersible pump that develops more than 80 psi at the inlet of the AQ80, use a pressure regulator to protect the AquaGenie from excessive pressure.)

Features:

- Constant pressure at flow rates of 1/2 gpm or higher, eliminating the annoying pressure fluctuations common with pump/tank systems
- Pump runs continuously while service is needed, eliminating short cycling, the major cause of motor wear and failure
- Handles flow rates up to 20 gpm. For flow rates above 20 gpm, AquaGenies may be connected in parallel to handle each 20 gpm increment
- Retrofittable to any existing pump and pressure tank system



Components of Jet Pump Installation

Left is an example of a shallow well application for your jet pump with the constant pressure valve. Your installation may be slightly different but the application is basically the same. Consult your dealer for assistance with your particular application.

Ordering Information:

(See pgs. 2-3 for model number explanation)

MODEL	PRESET OUTLET PRESSURE	INLET	OUTLET	TANK CONNECTION	MAX. INLET PRESSURE	ORDER NO.	WT.
AQ80	None	1"	1"	1"	80 psi	91987321	2

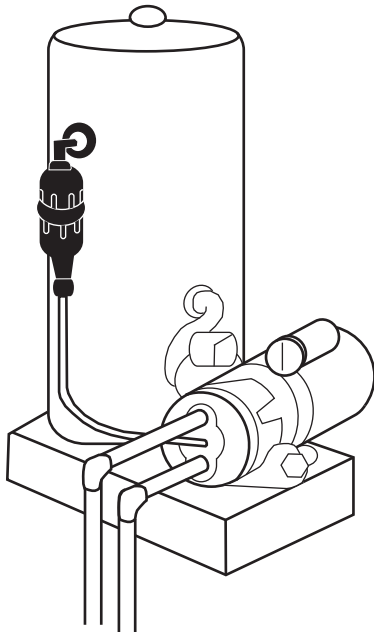
Note: All weights in pounds.



225A Jet Charger

Features:

- Specifically designed to prevent water-logging typically associated with a conventional galvanized pressure tank
- Automatically maintains a proper balance of air and water volume in the tank
- Eliminates frequent starts and stops, thus extending motor life and reducing power consumption
- Eliminates tank draining normally required of waterlogged tanks
- Eliminates need for other costly equipment
- Unit consists of 225A jet charger, reducer bushing, adapter nut, 3/8" polyethylene tubing and male connector



Ordering Information:

(See pgs. 2-3 for model number explanation)

MODEL NO.	ORDER NO.	WT.
225A	9190-8012	2

Note: All weights in pounds.

Non-Submersible Pumps

Self-Priming Centrifugal Pumps

Turf Boss

J-CLASS



CSA ENC 3
COF CSA 3
C[®] SA[®] US
LR 80980

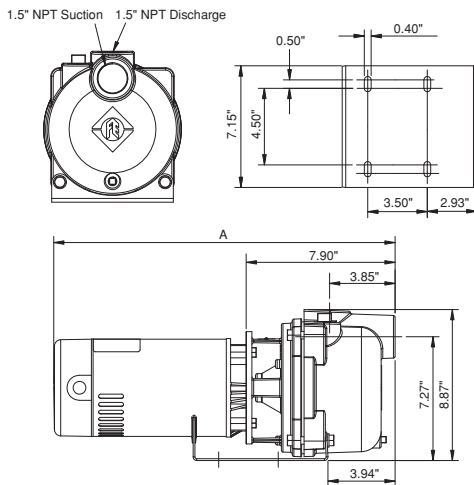


TURFBOSS

Features:

- Self-priming design, with the ability to lift water from a depth of 25'
- Easily serviced through a back pull-out design, which leaves all plumbing and both the pump's base and case undisturbed in their original location
- Rugged pump case constructed with heavy-duty cast iron ensures optimum durability, quiet operation, and long life
- Hydraulic components molded with Noryl[®] thermoplastic, when coupled with the floating stainless steel impeller eye-seal, ensures dependable and efficient operation
- Industry proven indoor and outdoor C-Face motors from A.O. Smith
- 1 and 1.5 hp motors are dual voltage, set to run with either 115 or 230 V incoming power (2 hp is 230 V only)
- Mechanical shaft seal allows positive protection against leaking
- Built-in drain plug for easy winterizing and servicing
- Shut-off pressures up to 130 feet, and flow rates to 70 gpm
- Handles water temperatures up to 120 °F/49 °C
- Integral 1" NPT priming plug
- 1-1/2" NPT suction, 1-1/2" NPT discharge

Noryl[®] is a registered trademark of G.E.



Dimensions:

HP	A
1	20.0"
1.5	21.6"
2	21.6"

Note: Dimensions will vary according to motor manufacturer.

Ordering Information:

(See pgs. 2-3 for model number explanation)

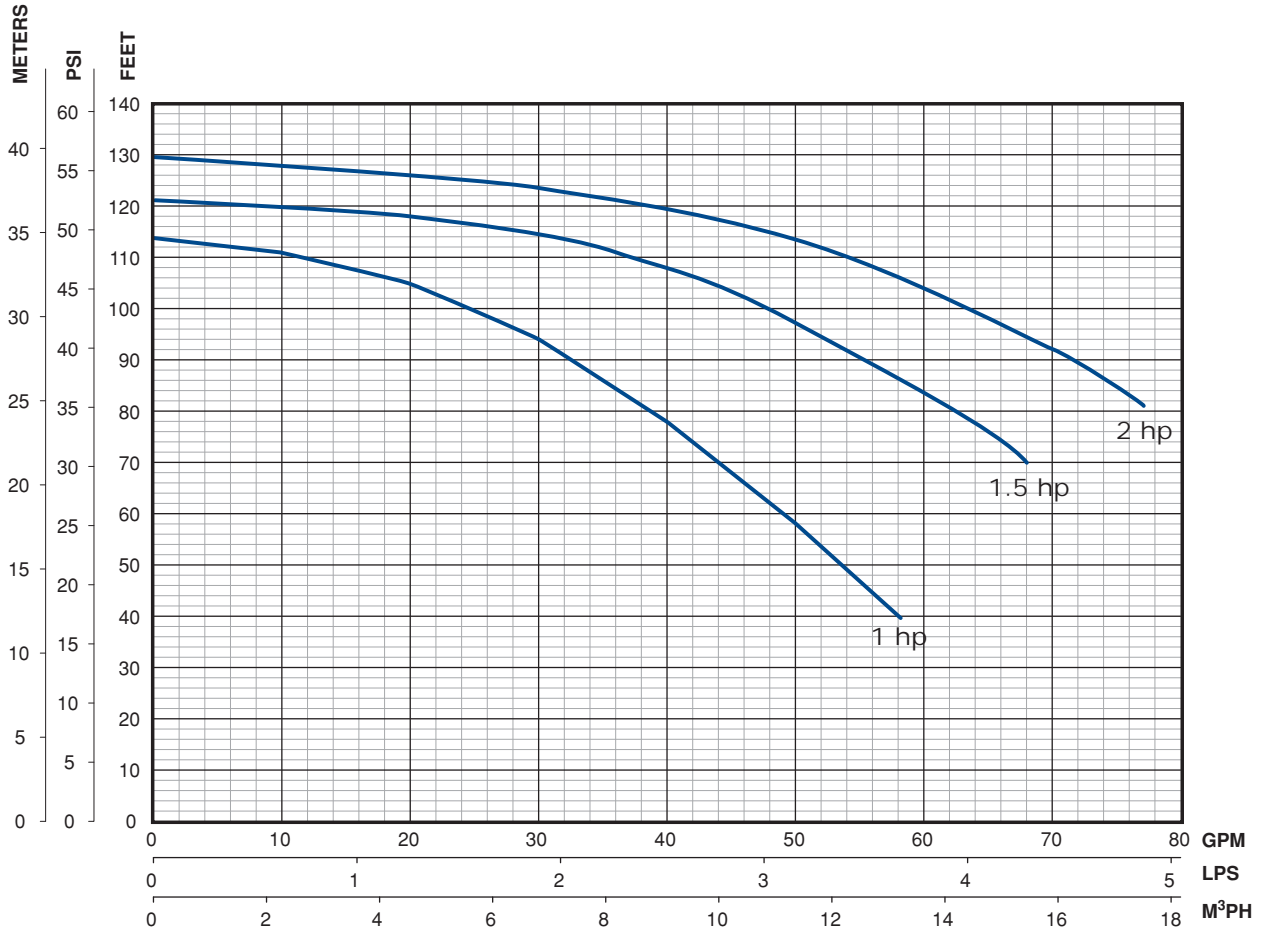
MODEL	HP	SUCTION/DISCHARGE	VOLTAGE	PUMP UNIT	
				ORDER NO.	WT.
JTB1CI	1	1.5" x 1.5"	115/230	92970010	50
JTB15CI	1.5	1.5" x 1.5"	115/230	92970015	57
JTB2CI	2	1.5" x 1.5"	230	92970020	58

Note: All weights in pounds.

Non-Submersible Pumps

Self-Priming Centrifugal Pumps

Turf Boss



MODEL	SUCTION LIFT FT.	DISCHARGE PRESSURE - PSI							SHUT-OFF PRESSURE PSI
		20	25	30	35	40	45	50	
		GALLONS PER MINUTE							
JT B1CI	5	53	47	42	36	27	13	-	46
	10	49	45	38	32	23	-	-	44
	15	45	43	37	28	17	-	-	42
	20	38	37	33	24	-	-	-	40
	25	28	27	27	18	-	-	-	38
JT B15CI	5	65	64	63	58	48	37	-	50
	10	58	58	57	55	45	26	-	48
	15	50	49	48	48	40	-	-	46
	20	41	40	39	38	32	-	-	44
	25	29	28	28	27	17	-	-	42
JT B2CI	5	70	69	69	68	65	53	35	52
	10	61	60	60	59	58	47	-	50
	15	52	51	50	49	48	37	-	49
	20	41	40	39	38	35	-	-	47
	25	29	28	27	25	22	-	-	45

Non-Submersible Pumps

Self-Priming Centrifugal Pumps Typhoon Series

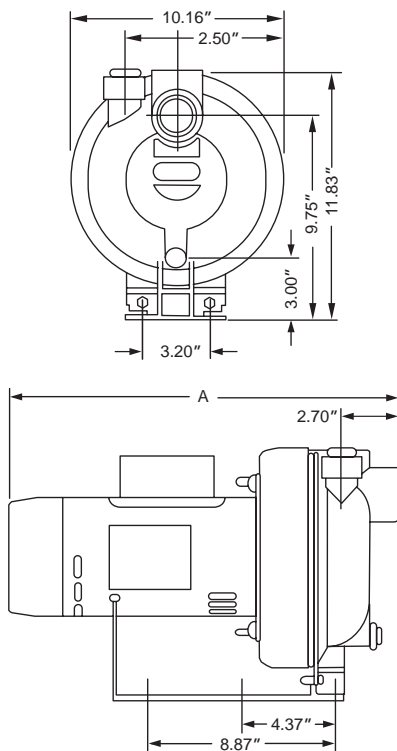
J-CLASS

Typhoon - Thermoplastic

The Typhoon self-priming sprinkler pump is ideal as a lawn sprinkler pump, or for general recirculation.

Features:

- Self-priming with large 1" priming port
- Non-corrosive thermoplastic case with engineered-flow, high-efficiency, low-noise design
- High performance, thermoplastic hydraulics, including floating eye seal and stainless steel impeller wear ring
- 1-1/2" NPT threaded suction and discharge
- Built in drain plug to facilitate servicing/winterizing
- Square-flange motor design
- Easy motor toggle switch changes from 230 V to 115 V without rewiring. (Not available on 2 hp.)
- Available in 3/4, 1, 1.5, and 2 hp
- Handles water temperatures up to 120 °F/49 °C and working pressure up to 75 psi



Dimensions:

HP	FRAME	A
3/4	48	18-1/4"
1	48	18-1/2"
1.5	48	18-3/8"
2	56	19-7/8"

Note: Dimensions will vary according to motor manufacturer.

Ordering Information:

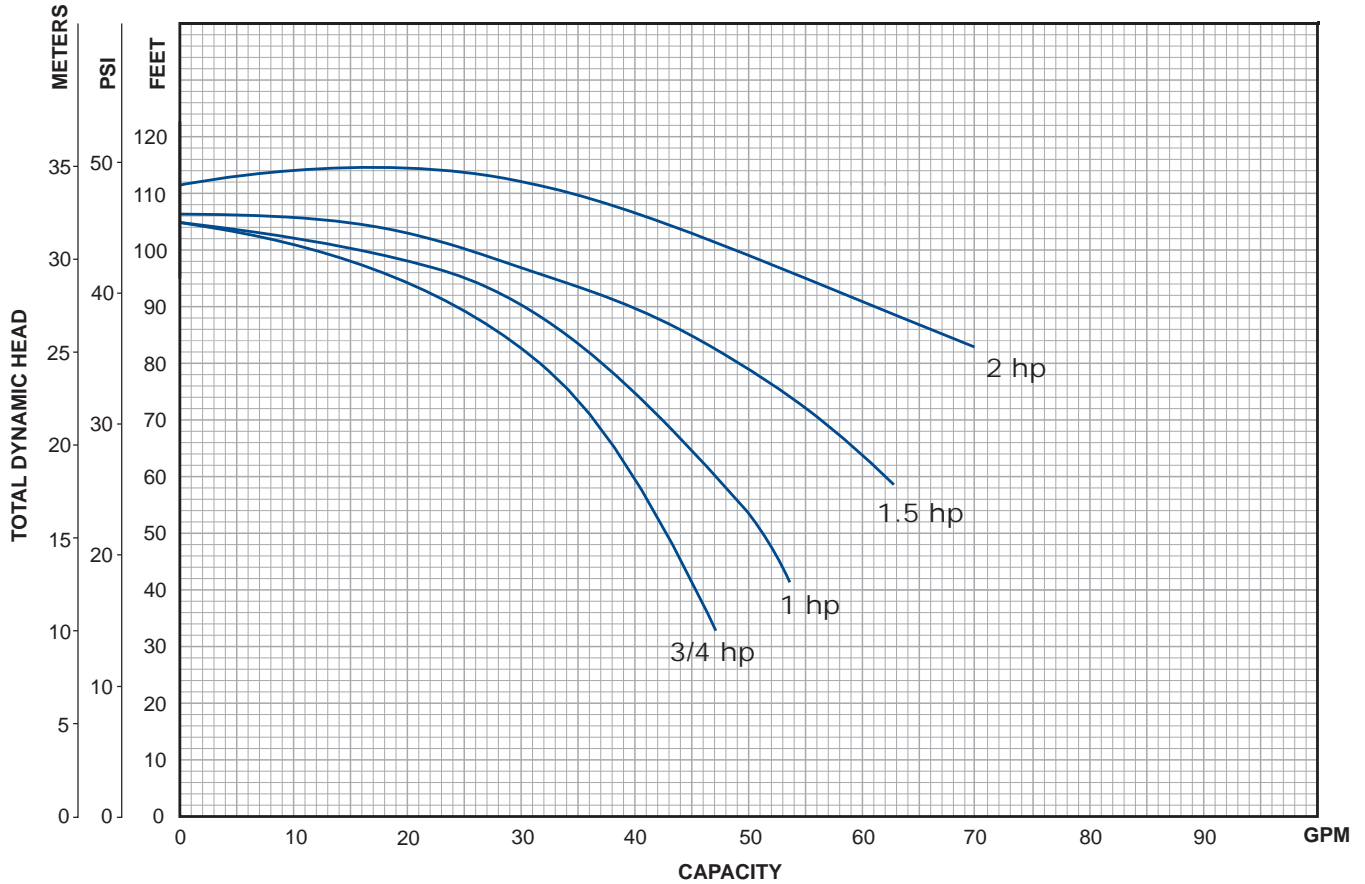
(See pgs. 2-3 for model number explanation)

MODEL	HP	VOLTAGE	PUMP UNIT	
			ORDER NO.	WT.
7TY	3/4	115/230	93312007	37
10TY	1	115/230	93312010	38
15TY	1.5	115/230	93312015	40
20TY	2	115/230	93312020	43

Note: All weights in pounds.

Non-Submersible Pumps

Self-Priming Centrifugal Pumps Typhoon Series



MODEL	TOTAL SUCTION LIFT IN FEET	DISCHARGE PSI					SHUT OFF PRESSURE (PSI)
		20	25	30	35	40	
CAPACITY IN GPM							
7TY 3/4 hp	5	43	39	35	28	16	42
	10	41	37	32	23	-	40
	15	39	35	29	18	-	38
	20	38	33	25	-	-	35
10TY 1 hp	5	50	45	40	33	21	43
	10	49	44	37	29	7	41
	15	46	41	35	24	-	39
	20	44	39	31	12	-	36
15TY 1.5 hp	5	65	60	54	44	30	44
	10	64	57	50	38	21	42
	15	61	54	46	31	7	40
	20	58	50	41	23	-	37
20TY 2 hp	5	79	76	72	65	52	46
	10	78	74	69	59	45	44
	15	76	72	67	54	38	42
	20	74	70	63	47	20	39

Non-Submersible Pumps

End Suction Centrifugal Pumps

DDD Series

J-CLASS

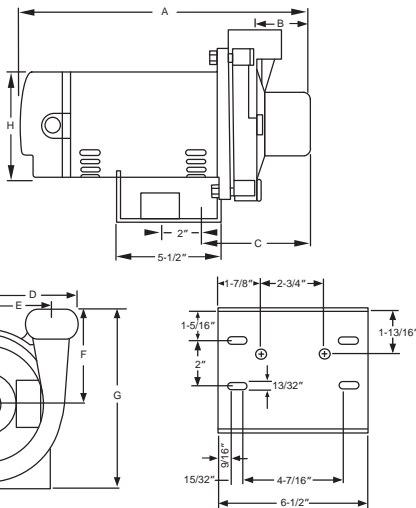
DDD Series



NRTL/C
CSA108
UL778

Features:

- Cast iron seal plate for dependable high temperature operation
- Glass filled thermoplastic impeller for increased efficiency and dependable high temperature operation
- Back pull-out design provides access to internal parts without disturbing the plumbing
- Mechanical shaft seal ensures a leakproof fit and continuous water lubrication
- Maximum temperature limit of 140 °F/60 °C and maximum working pressure of 150 psi
- Square-flange open drip-proof motor for easy service and reliability
- Available in single- and three-phase models
- Enclosed impeller design for increased efficiencies
- Chemical resistant thermoplastic impeller



Dimensions:

H.P.	SUCT. (NPT)	DISCH. (NPT)	A	B	C	D	E	F	G	H
1/2	1-1/4"	1"	14-11/16"	2-3/8"	5-5/16"	4-7/16"	3-1/2"	4-5/8"	8-3/4"	5-1/2"
3/4	1-1/4"	1"	14-11/16"	2-3/8"	5-5/16"	4-7/16"	3-1/2"	4-5/8"	8-3/4"	5-1/2"
1	1-1/4"	1"	14-11/16"	2-3/8"	5-5/16"	4-7/16"	3-1/2"	4-5/8"	8-3/4"	5-1/2"
1.5	1-1/4"	1"	15-3/16"	2-3/8"	5-5/16"	4-7/16"	3-1/2"	4-5/8"	8-3/4"	5-1/2"
2	1.5"	1.25"	16-11/16"	2-13/16"	6-1/8"	5"	3-9/16"	5"	9-1/8"	6-5/16"
2.5	2"	1.5"	16-11/16"	2-13/16"	6-1/8"	5"	3-9/16"	5"	9-1/8"	6-5/16"

Note: Dimensions will vary according to motor manufacturer.

Non-Submersible Pumps

End Suction Centrifugal Pumps DDD Series

Ordering Information:

(See pgs. 2-3 for model number explanation)

SERIES	SUCTION X DISCHARGE	HP	SINGLE-PHASE			THREE-PHASE - 208-230/460 V		
			MODEL NO.	ORDER NO.	WT.	MODEL NO.	ORDER NO.	WT.
DDD	1-1/4" x 1"	1/2	5DDD1-S	93126928	27	5DDD1-T	93127991	27
		3/4	7DDD1-S	93126936	31	7DDD1-T	93128007	31
		1	1DDD1-S	93126944	33	1DDD1-T	93128015	33
		1.5	15DDD1-S	93126951	38	15DDD1-T	93128023	38
	1.5" x 1-1/4"	2	2DDD1.25-S	93126969	48	2DDD1.25-T	93128031	48
	2" x 1.5"	2.5	25DDD1.5S	93126977	46	-	-	-

Pump End Kits Ordering Information:

(See pgs. 2-3 for model number explanation)

DDD SERIES CENTRIFUGAL PUMP END KITS FOR 3500 R.P.M. - O.D.P. MOTORS								
SERIES	SUCTION X DISCHARGE	HP RANGE	PHASE	MOTOR FRAME SIZE	MAX. IMP. DIAMETER	PUMP END KIT		
						MODEL NO.	ORDER NO.	WT.
DDD	1-1/4" x 1"	1/2 - 1.5	1 or 3	56Z	5.315"	DDD1-K1	93127413R348	12
	1.5" x 1-1/4"	2	1 or 3	56Z	5.65"	DDD1-1/4-K1	93127413R358	15
	2" x 1.5"	2.5	1 or 3	56Z	5.95"	DDD1-1/2-K1	93127413R368	14

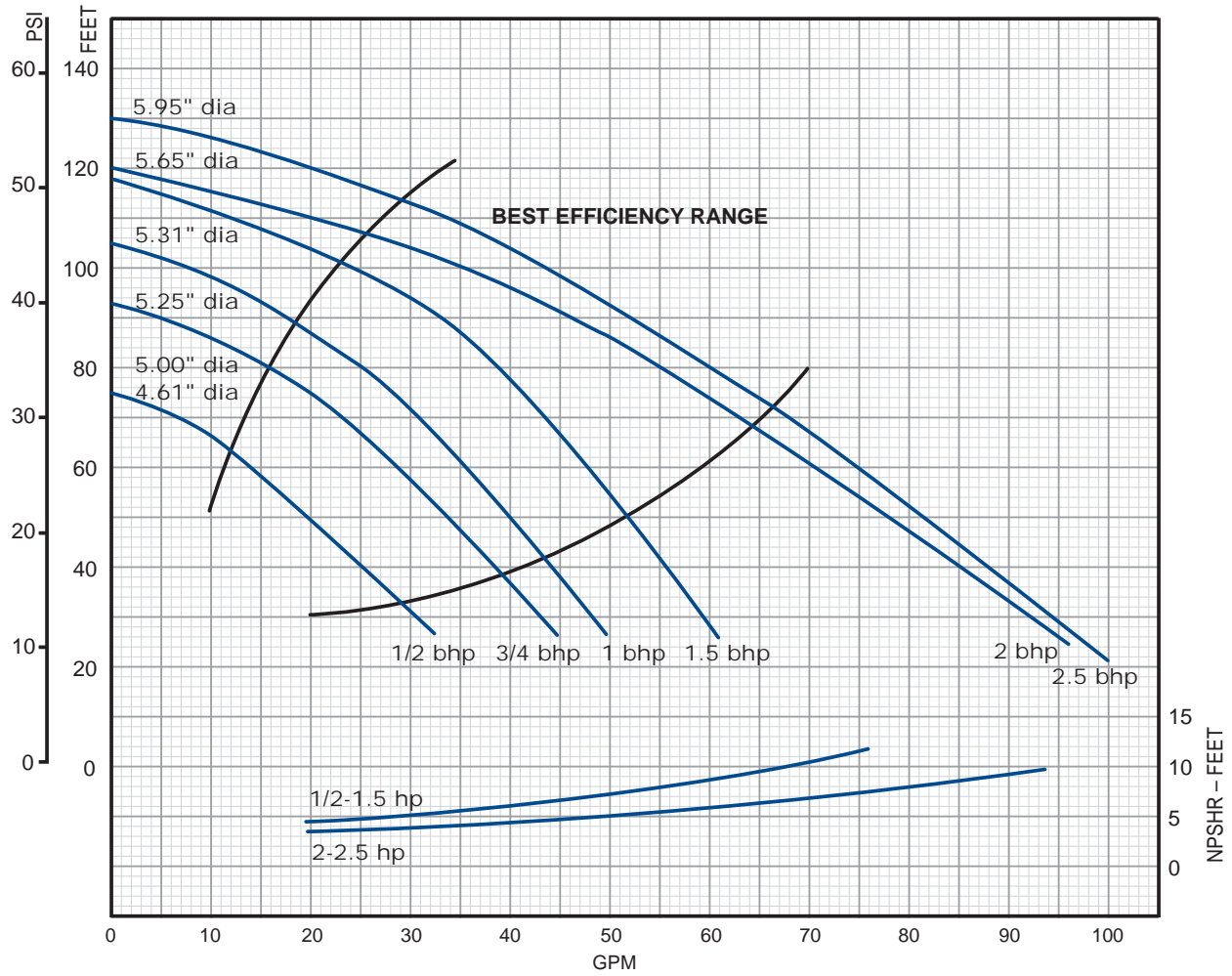
Note: All weights in pounds.

Non-Submersible Pumps

End Suction Centrifugal Pumps

DDD Series

DDD/DDS Series - Performance Curves & Charts:



HP	SUCTION X DISCHARGE	TOTAL HEAD - FEET											SHUT OFF HEAD (FEET)	
		30	35	40	45	50	60	70	80	90	100	110		
		CAPACITIES - GPM												
1/2	1-1/4" x 1"	30	27	25	22	19	14	-	-	-	-	-	-	74
3/4	1-1/4" x 1"	-	41	38	36	34	29	23	16	-	-	-	-	93
1	1-1/4" x 1"	-	-	-	42	40	36	31	25	18	-	-	-	105
1.5	1-1/4" x 1"	-	-	-	-	52	47	44	39	34	25	-	-	118
2	1-1/2" x 1-1/4"	-	-	-	-	-	-	64	56	47	36	23	-	121
2.5	2" x 1-1/2"	-	-	-	-	-	-	68	61	53	45	35	-	131

Note: All performance data based on rated nameplate voltage.

J-CLASS

BT4 Series

Cast Iron Features:

- Designed for boosting water pressure from a variety of sources including municipal and private water systems
- Available with either cast iron or stainless steel discharge and motor bracket
- Cast motor bracket features a rugged support foot for horizontal or vertical mounting, and a handle for portability of the unit
- 1-1/4" suction and 1" discharge are the same across the entire line, simplifying installation and maintenance
- The booster pump is built by Franklin Electric's Patented (U.S. Patent 7,290,984) TRI-SEAL floating stage system, for maximum efficiency, longevity, and performance
- Assembled with the highest quality materials of construction, such as Celcon® for impellers, Noryl® for the diffusers, and 300 series stainless steel for the hub, eye seals, shaft and shell
- Easily serviced through a back pull-out design, which leaves all plumbing and the pump undisturbed in their original location
- Industry proven square flange motors from A.O. Smith
- 1/2 through 3 hp motors are dual voltage, set to run with either 115V or 230V incoming power; while 3 hp are 230V only
- Shut-off pressures up to 270 PSI, flow rates from 5 to 25 gpm, and temperatures up to 120 °F/49 °C

Stainless Steel Features:

Includes all of the cast iron features above plus:

- Stainless steel models industrial applications:
 - Viton® mechanical seal.
 - 1/3 through 3 hp high service factor A.O. Smith motors.
- Stainless steel motor bracket with a rugged support foot for horizontal or vertical mounting, and a handle for portability of the unit.

Celcon® is a Registered Trademark of the Celanese Corp.
Noryl® is a Registered Trademark of G.E.
Viton® is a Registered Trademark of Dupont Dow Elastomers.



CSA ENC 3
COF CSA 3



Applications:

- Boosting water pressure from either city mains or private water systems
- Pressure washing buildings and floors
- Poultry houses
- Spray cooling equipment
- Lawn and crop irrigation
- Evaporative cooling system/misters
- Water circulation
- General purpose pumping
- Reverse osmosis - stainless steel BT4
- Filtration - stainless steel BT4

Note: 3 hp BT4 pumps are for indoor installations only. They are not rated for outdoor installations.

Non-Submersible Pumps

Booster Pumps

BT4 Series

Stainless Steel Ordering Information (with Viton® mechanical seal and high service factor A.O. Smith motor):
(See pgs. 2-3 for model number explanation)

GPM	HP	SUCTION/DISCHARGE	VOLTAGE	MODEL NO.	ORDER NO.	WT.
5	1/3	1-1/4" x 1"	115/230	5JBT03S4	95820505	33
	1/2	1-1/4" x 1"	115/230	5JBT05S4	95820510	37
	3/4	1-1/4" x 1"	115/230	5JBT07S4	95820515	41
	1	1-1/4" x 1"	115/230	5JBT1S4	95820520	46
7	1/2	1-1/4" x 1"	115/230	7JBT05S4	95820710	37
	3/4	1-1/4" x 1"	115/230	7JBT07S4	95820715	40
	1	1-1/4" x 1"	115/230	7JBT1S4	95820720	46
	1.5	1-1/4" x 1"	115/230	7JBT15S4	95820725	53
10	1/2	1-1/4" x 1"	115/230	10JBT05S4	95821010	37
	3/4	1-1/4" x 1"	115/230	10JBT07S4	95821015	39
	1	1-1/4" x 1"	115/230	10JBT1S4	95821020	45
	1.5	1-1/4" x 1"	115/230	10JBT15S4	95821025	52
	2	1-1/4" x 1"	115/230	10JBT2S4	95821030	56
15	3/4	1-1/4" x 1"	115/230	15JBT07S4	95821515	39
	1	1-1/4" x 1"	115/230	15JBT1S4	95821520	44
	1.5	1-1/4" x 1"	115/230	15JBT15S4	95821525	49
	2	1-1/4" x 1"	115/230	15JBT2S4	95821530	55
20	3/4	1-1/4" x 1"	115/230	20JBT07S4	95822015	39
	1	1-1/4" x 1"	115/230	20JBT1S4	95822020	44
	1.5	1-1/4" x 1"	115/230	20JBT15S4	95822025	51
	2	1-1/4" x 1"	115/230	20JBT2S4	95822030	55
	3	1-1/4" x 1"	230	20JBT3S4	95822035	67
25	1	1-1/4" x 1"	115/230	25JBT1S4	95822520	44
	1.5	1-1/4" x 1"	115/230	25JBT15S4	95822525	48
	2	1-1/4" x 1"	115/230	25JBT2S4	95822530	54
	3	1-1/4" x 1"	230	25JBT3S4	95822535	66

Viton® is a Registered Trademark of Dupont Dow Elastomers.

Cast Iron Ordering Information:

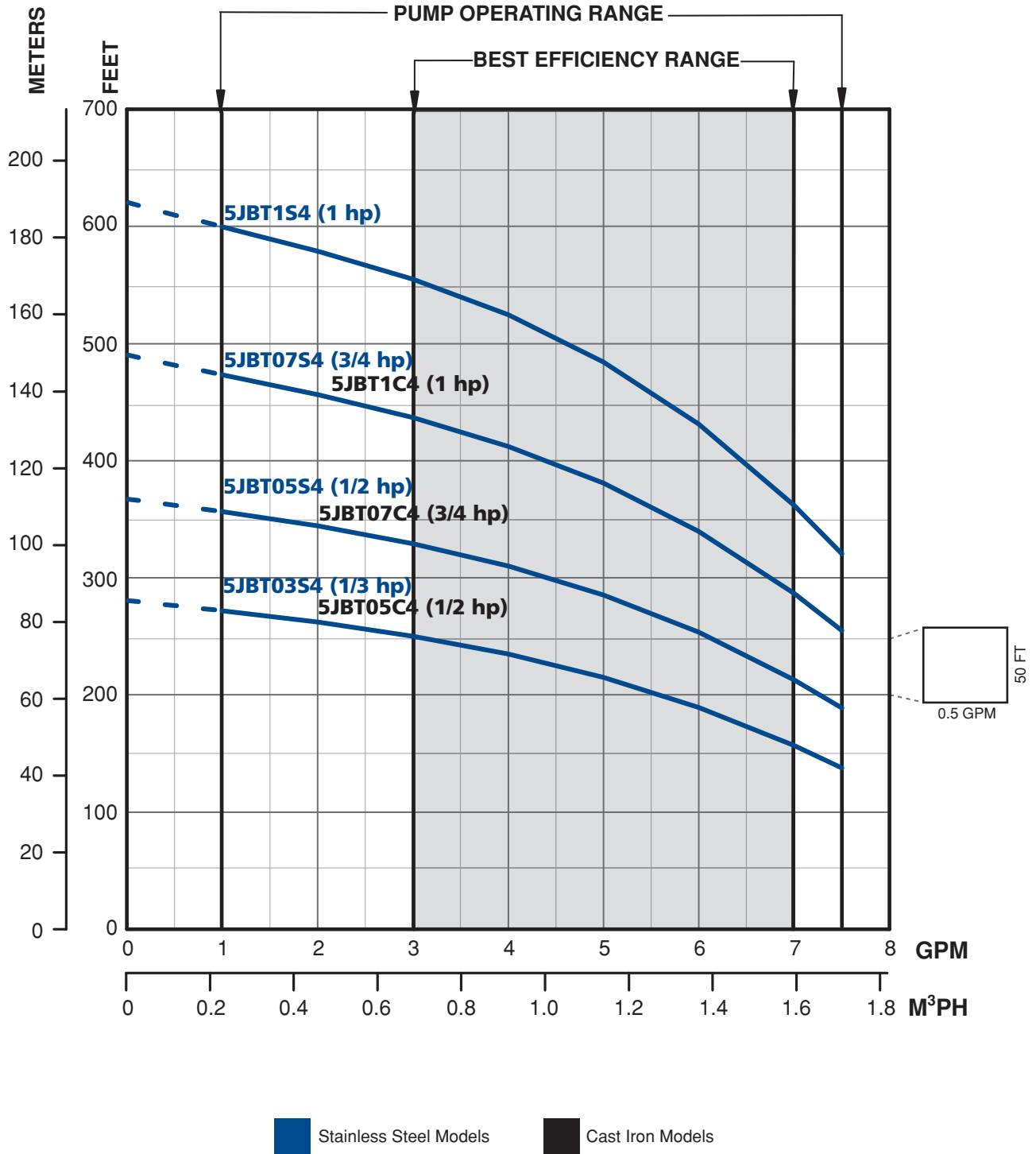
GPM	HP	SUCTION/DISCHARGE	VOLTAGE	MODEL NO.	ORDER NO.	WT.
5	1/2	1-1/4" x 1"	115/230	5JBT05C4	95870505	36
	3/4	1-1/4" x 1"	115/230	5JBT07C4	95870510	40
	1	1-1/4" x 1"	115/230	5JBT1C4	95870515	43
7	1/2	1-1/4" x 1"	115/230	7JBT05C4	95870705	36
	3/4	1-1/4" x 1"	115/230	7JBT07C4	95870710	40
	1	1-1/4" x 1"	115/230	7JBT1C4	95870715	43
	1.5	1-1/4" x 1"	115/230	7JBT15C4	95870720	48
10	1/2	1-1/4" x 1"	115/230	10JBT05C4	95871005	35
	3/4	1-1/4" x 1"	115/230	10JBT07C4	95871010	39
	1	1-1/4" x 1"	115/230	10JBT1C4	95871015	42
	1.5	1-1/4" x 1"	115/230	10JBT15C4	95871020	48
	2	1-1/4" x 1"	115/230	10JBT2C4	95871025	55
15	3/4	1-1/4" x 1"	115/230	15JBT07C4	95871510	39
	1	1-1/4" x 1"	115/230	15JBT1C4	95871515	41
	1.5	1-1/4" x 1"	115/230	15JBT15C4	95871520	47
	2	1-1/4" x 1"	115/230	15JBT2C4	95871525	52
20	3/4	1-1/4" x 1"	115/230	20JBT07C4	95872010	39
	1	1-1/4" x 1"	115/230	20JBT1C4	95872015	41
	1.5	1-1/4" x 1"	115/230	20JBT15C4	95872020	47
	2	1-1/4" x 1"	115/230	20JBT2C4	95872025	54
	3	1-1/4" x 1"	230	20JBT3C4	95872035	70
25	1	1-1/4" x 1"	115/230	25JBT1C4	95872515	41
	1.5	1-1/4" x 1"	115/230	25JBT15C4	95872520	46
	2	1-1/4" x 1"	115/230	25JBT2C4	95872525	51
	3	1-1/4" x 1"	230	25JBT3C4	95872535	69

Note: All weights in pounds.

Non-Submersible Pumps

Booster Pumps

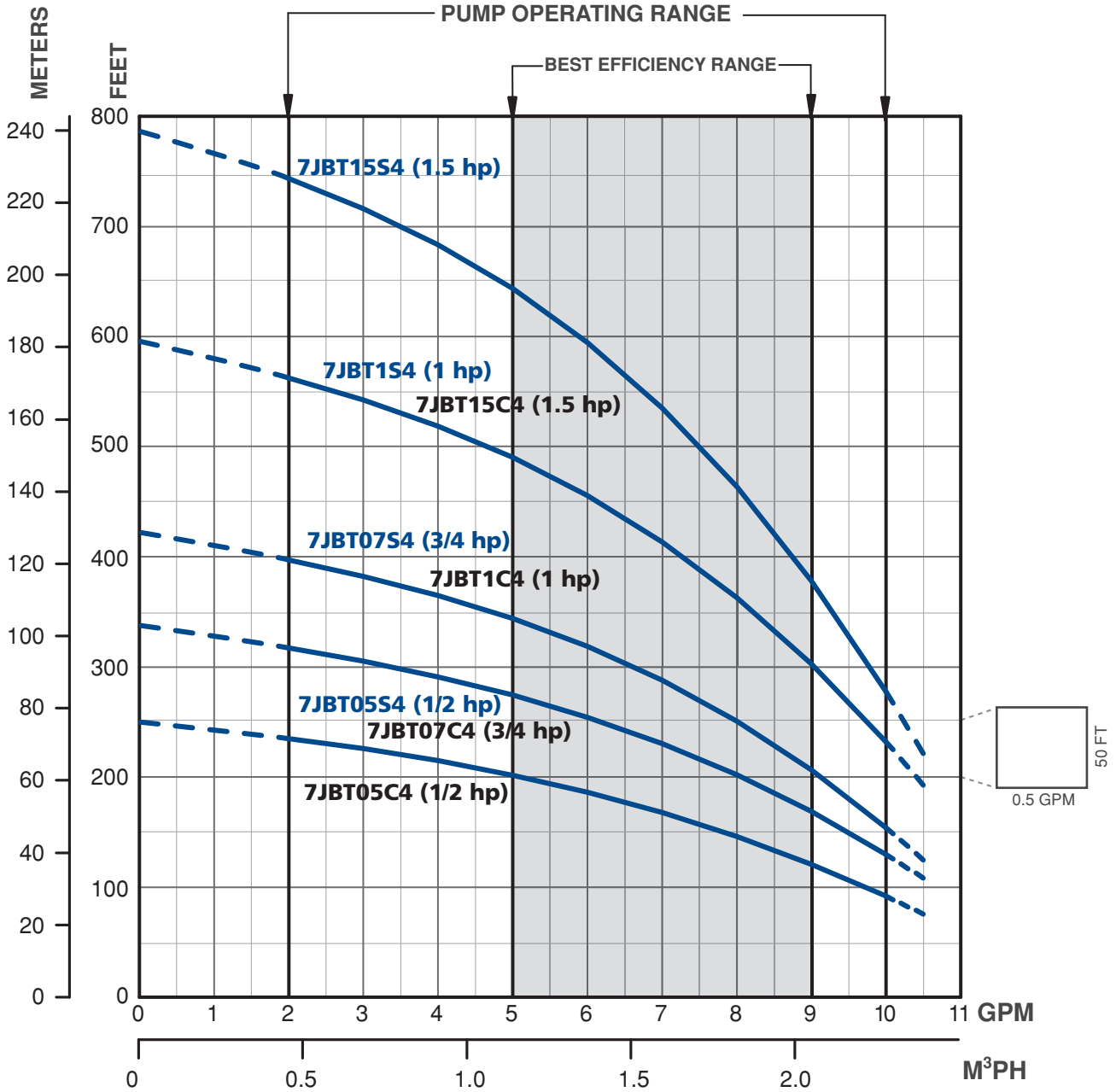
BT4 Series - 5 gpm Performance



Non-Submersible Pumps

Booster Pumps

BT4 Series - 7 gpm Performance

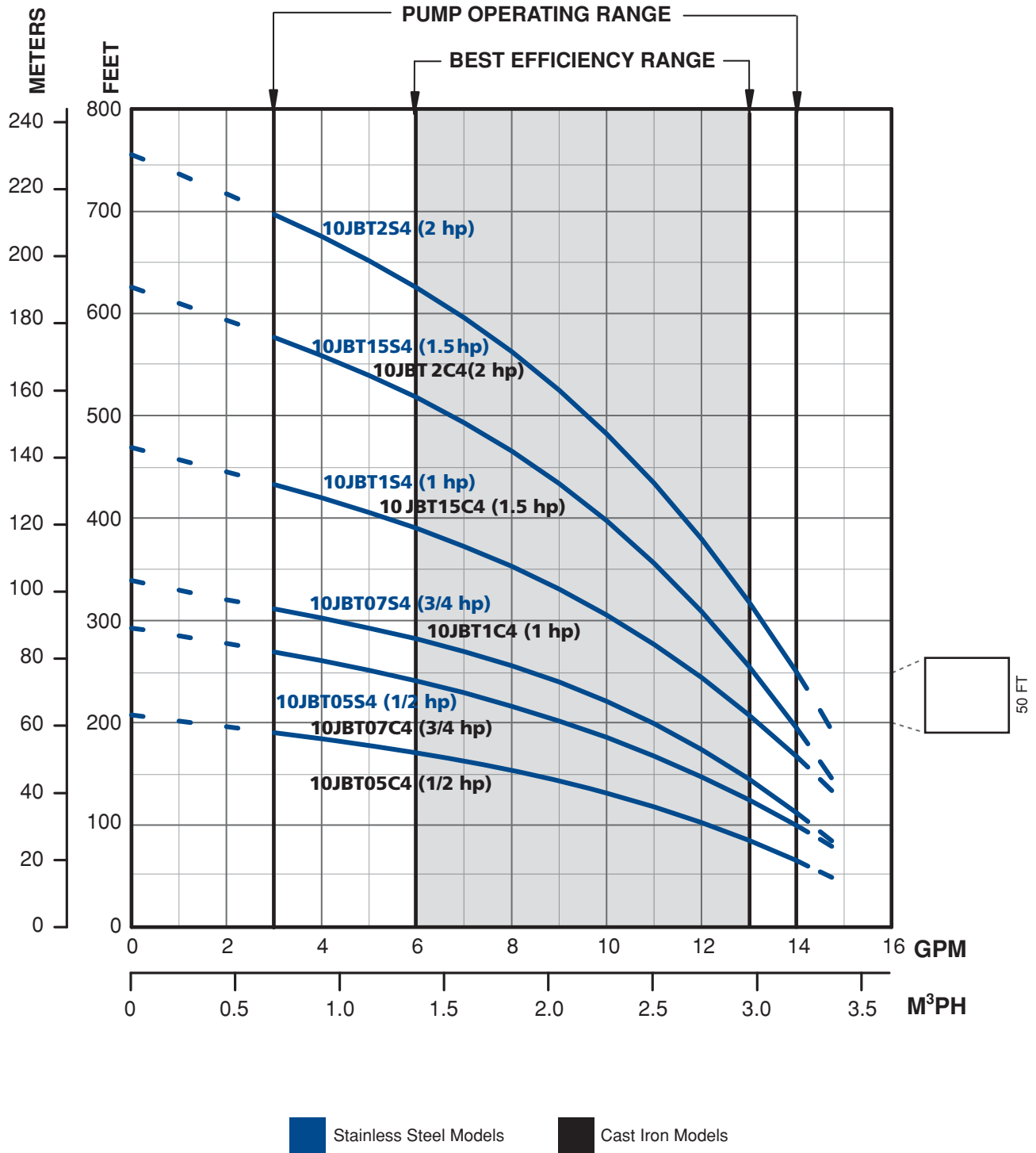


Stainless Steel Models
 Cast Iron Models

Non-Submersible Pumps

Booster Pumps

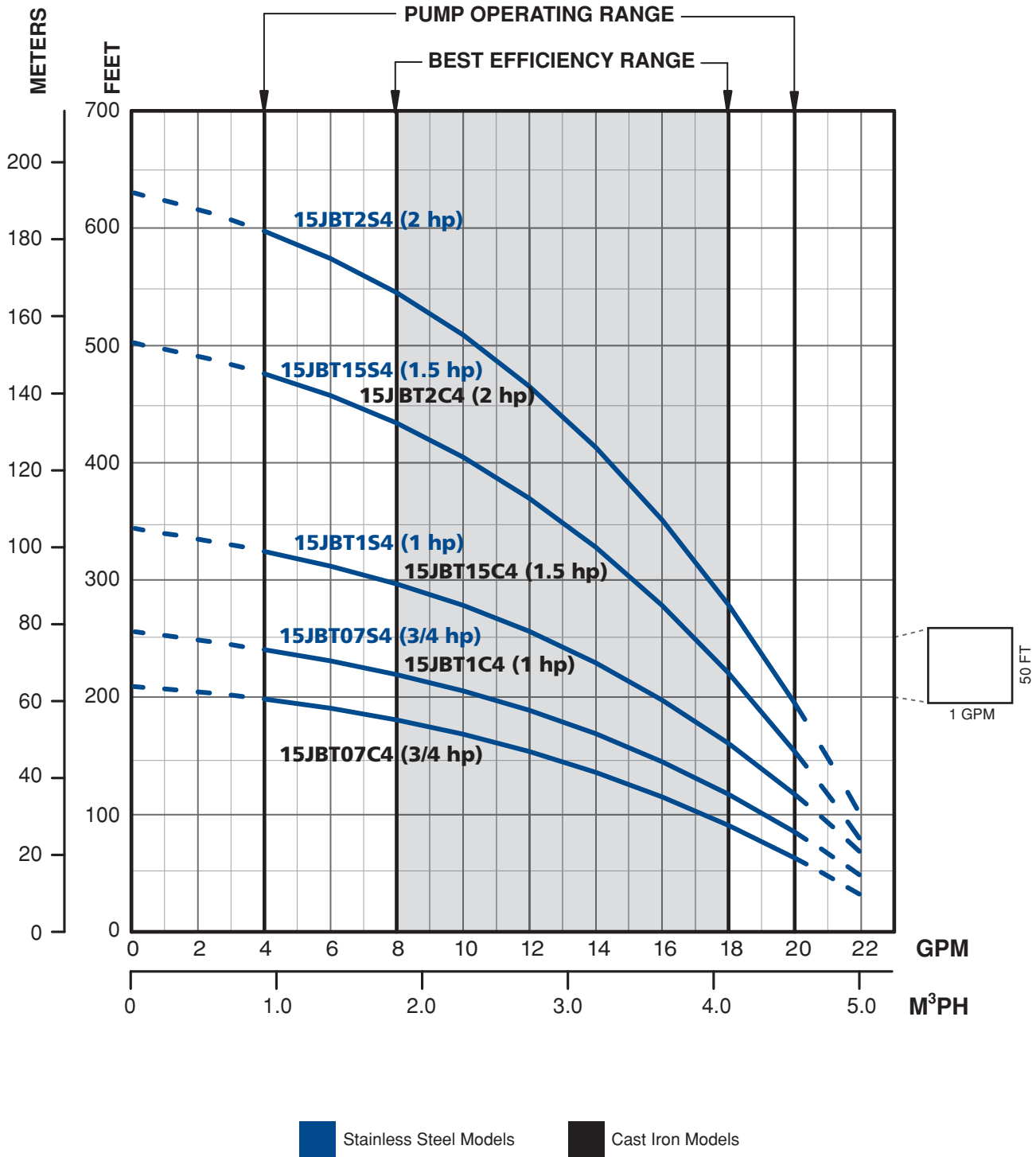
BT4 Series - 10 gpm Performance



Non-Submersible Pumps

Booster Pumps

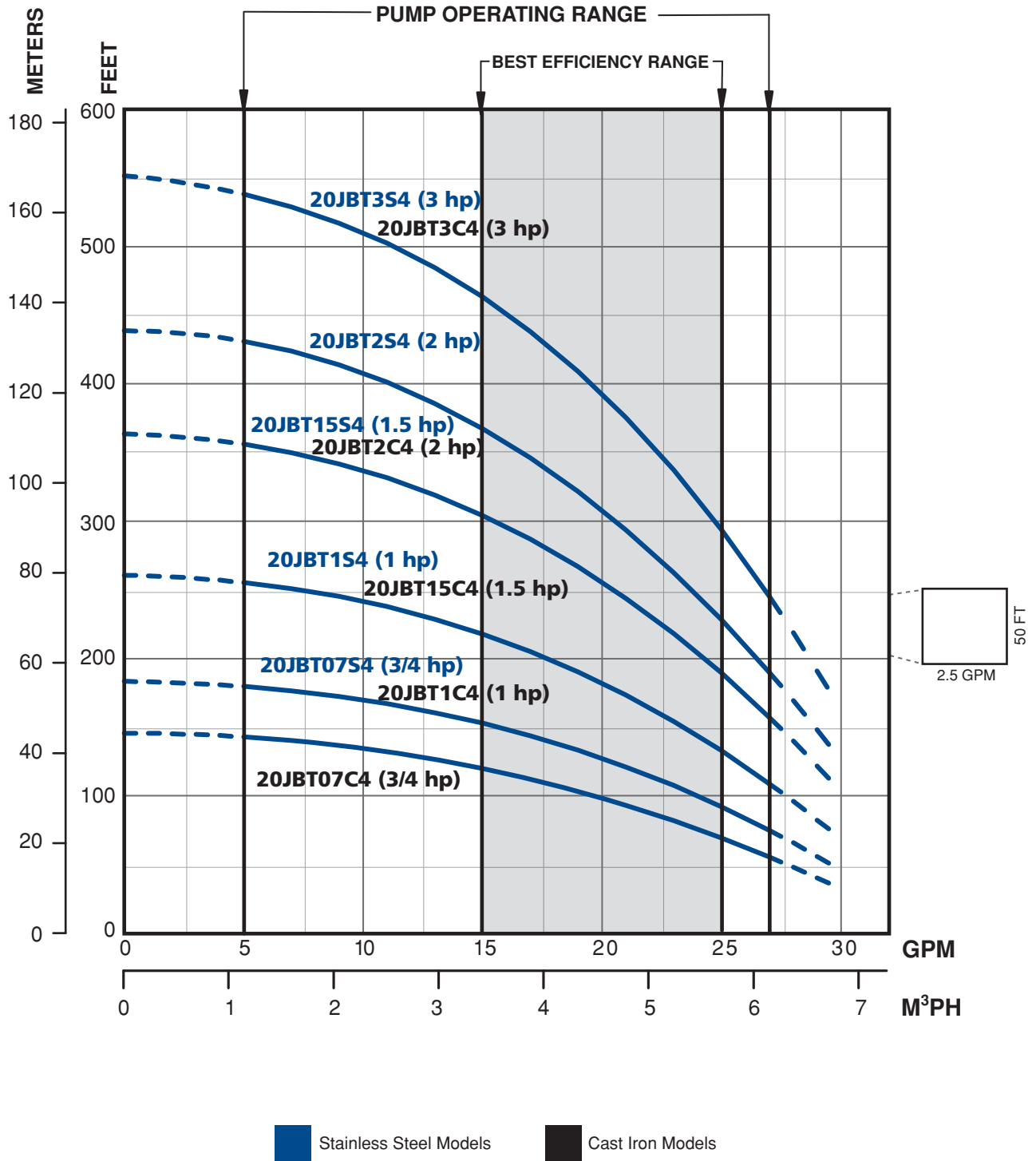
BT4 Series - 15 gpm Performance



Non-Submersible Pumps

Booster Pumps

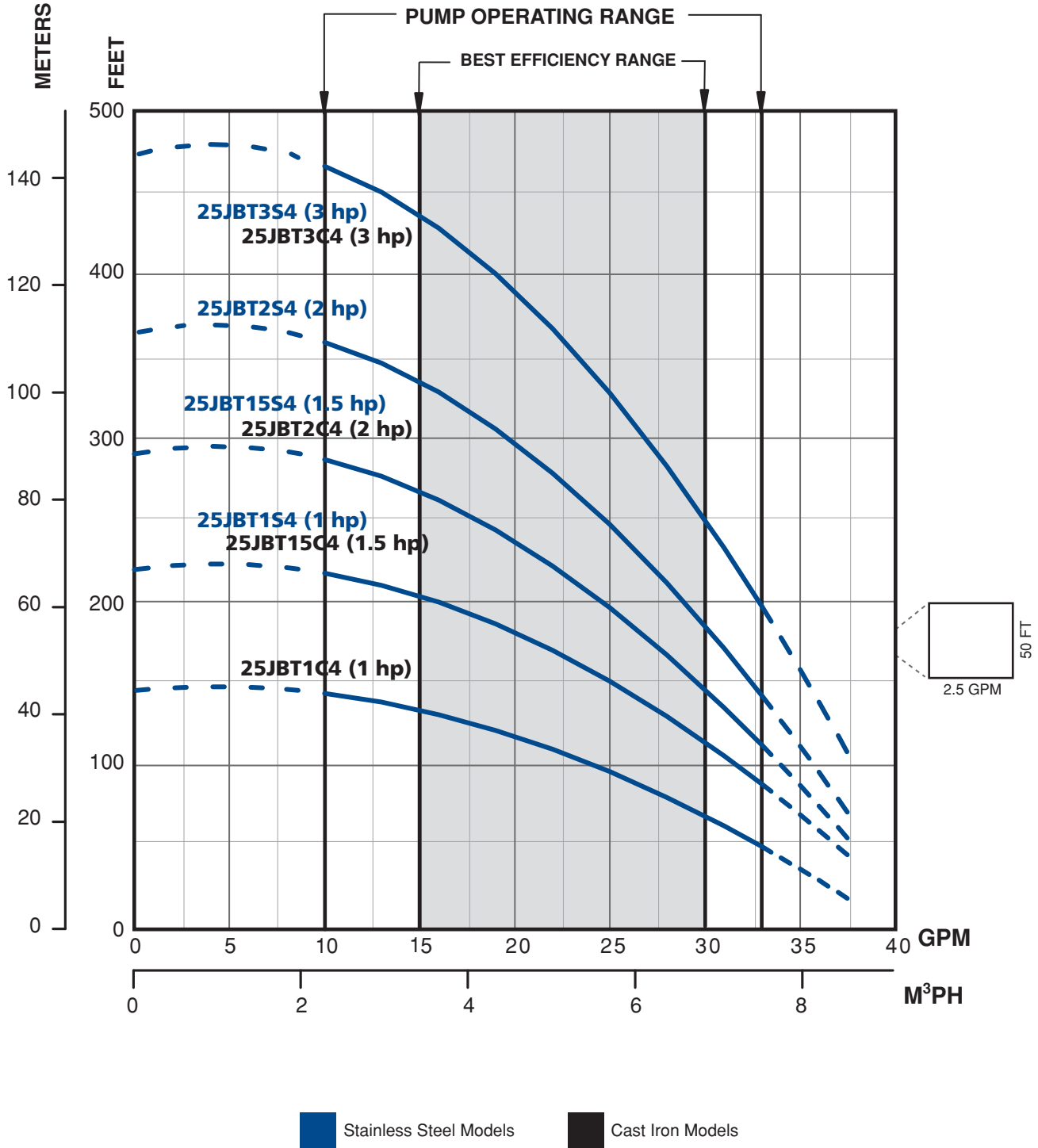
BT4 Series - 20 gpm Performance



Non-Submersible Pumps

Booster Pumps

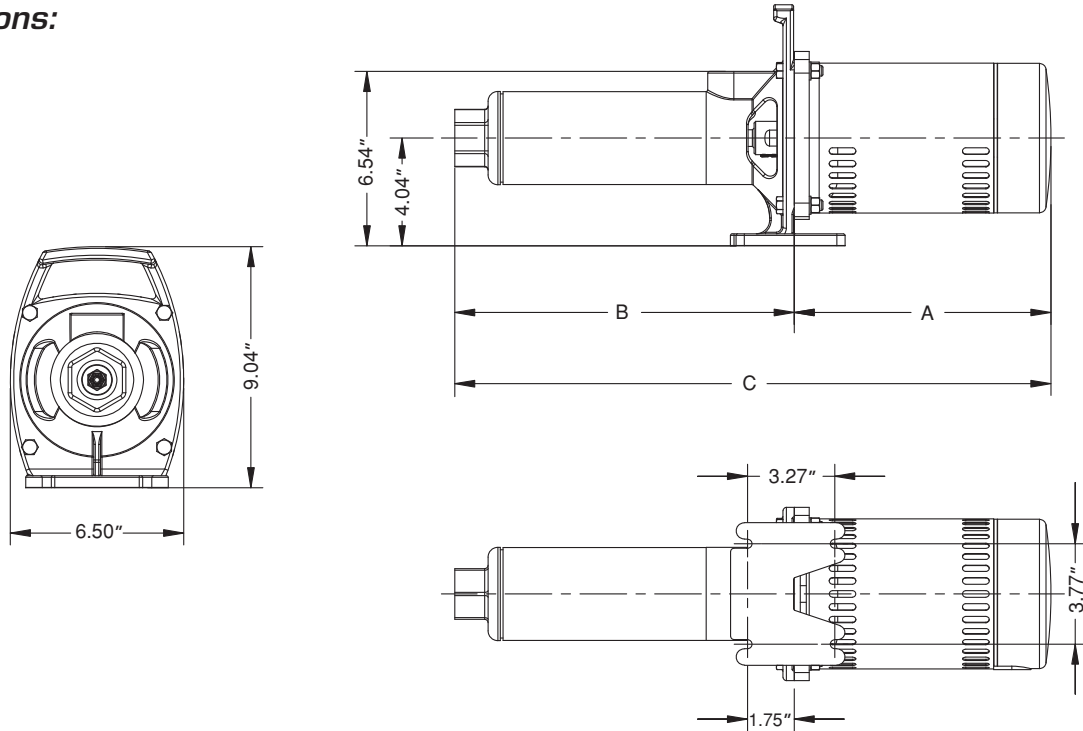
BT4 Series - 25 gpm Performance



Non-Submersible Pumps

Booster Pumps BT4 Series

Dimensions:



Cast Iron:

GPM	HP	STAGE	A	B	C
5	1/2	7	9.63"	13.49"	23.12"
	3/4	9	10.38"	15.14"	25.52"
	1	12	11.00"	17.60"	28.60"
7	1/2	6	9.63"	12.67"	22.30"
	3/4	8	10.38"	14.31"	24.69"
	1	10	11.00"	15.96"	26.96"
	1.5	14	11.88"	19.24"	31.12"
10	1/2	5	9.63"	12.27"	21.90"
	3/4	7	10.38"	14.07"	24.45"
	1	8	11.00"	14.98"	25.98"
	1.5	11	11.88"	17.69"	29.57"
15	3/4	5	10.38"	12.27"	22.65"
	1	6	11.00"	13.17"	24.17"
	1.5	8	11.88"	14.98"	26.86"
20	3/4	4	10.38"	12.64"	23.02"
	1	5	11.00"	13.87"	24.87"
	1.5	7	11.88"	16.31"	28.19"
25	1	4	11.00"	12.64"	23.64"
	1.5	6	11.88"	15.09"	26.97"

Stainless Steel:

GPM	HP	STAGE	A	B	C
5	1/2	9	10.38"	15.14"	25.52"
	3/4	12	11.00"	17.60"	28.60"
	1	15	11.88"	20.06"	31.94"
7	1/2	8	10.38"	14.31"	24.69"
	3/4	10	11.00"	15.96"	26.69"
	1	14	11.88"	19.24"	31.12"
10	1/2	7	10.38"	14.07"	24.45"
	3/4	8	11.00"	14.98"	25.98"
	1	11	11.88"	17.69"	29.57"
15	3/4	6	11.00"	13.17"	24.17"
	1	8	11.88"	14.98"	26.86"
20	3/4	5	11.00"	13.87"	24.87"
	1	7	11.88"	16.31"	28.19"
25	1	6	11.88"	15.09"	26.97"

Non-Submersible Pumps

Booster Pumps V6 Series

J-CLASS

V6 Series - High Pressure Vertical

The V6 Booster Pump is ideal for industrial/commercial applications where water pressure boosting is required. Designed with premium hydraulics for reliability and excellent performance. The V650 is available in 1.5 hp through 7.5 hp models. The V675 is available in 3 hp through 7.5 hp models.

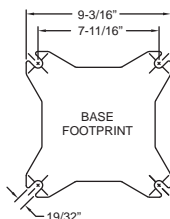
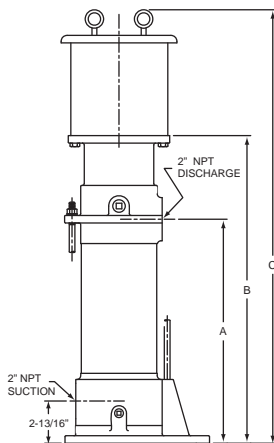


Features:

- Heavy-duty cast iron discharge housing and motor bracket for long life
- Stainless steel shell, shaft coupling and pump shaft for increased durability
- Top access to mechanical seal for easy replacement of seal without disturbing the plumbing or disassembling the pump
- Standard thrust motors which are available through normal distribution channels
- High flow impellers and stages are glass-filled Noryl® for added durability and strength
- Unique design allowing rotation of either suction or discharge in 90 degree increments for optimum installation flexibility
- Tie-rod construction for easy disassembly and service to impeller stack
- Maximum water temperature is 120 °F/49 °C
- Maximum operating pressure is 150 psi
- 2" NPT suction x 2" NPT discharge

Noryl® is a Registered Trademark of G.E.

Dimensions:



HP	50 GPM					
	A		B		C	
	1-PHASE	3-PHASE	1-PHASE	3-PHASE	1-PHASE	3-PHASE
1.5	10.94"	10.94"	16.51"	16.51"	27.04"	26.44"
2	12.56"	12.56"	18.13"	18.13"	28.66"	28.06"
3	14.18"	14.18"	19.75"	19.75"	30.95"	30.20"
5	19.05"	19.05"	25.43"	25.43"	38.32"	38.32"
7.5	N/A	23.92"	N/A	30.30"	N/A	46.24"

HP	75 GPM					
	A		B		C	
	1-PHASE	3-PHASE	1-PHASE	3-PHASE	1-PHASE	3-PHASE
3	10.94"	10.94"	14.88"	14.88"	27.70"	26.95"
5	14.18"	14.18"	19.75"	19.75"	32.64"	32.64"
7.5	N/A	17.43"	N/A	23.81"	N/A	39.75"

Note: Shaft turns counterclockwise if viewed from above motor

Non-Submersible Pumps

Booster Pumps V6 Series

Ordering Information:

(See pgs. 2-3 for model number explanation)

V6 VERTICAL BOOSTER PUMPS WITH OPEN DRIP PROOF MOTORS							
GPM	HP	SINGLE-PHASE			THREE-PHASE - 208-230/460 V		
		MODEL NO.	ORDER NO.	WT.	MODEL NO.	ORDER NO.	WT.
50	1.5	15VB650-2-S	91323915	100	15VB650-2-T	91324913	103
	2	2VB650-3-S	91323923	105	2VB650-3-T	91323964	108
	3	3VB650-4-S	91323931	109	3VB650-4-T	91323972	112
	5	5VB650-7-S	91324301	208	5VB650-7-T	91324327	188
	7.5	Not Available in Single-phase			75VB650-10-T	91324293	225
75	3	3VB675-2-S	91324244	106	3VB675-2-T	91324251	108
	5	5VB675-4-S	91324350	208	5VB675-4-T	91324368	182
	7.5	Not Available in Single-phase			75VB675-6-T	91324269	222

Note: Single-phase 1/3 - 2 hp motors rated 115/230 V. Single-phase 3 hp motor rated 230 V. Three-phase motors rated 208-230/460 V.

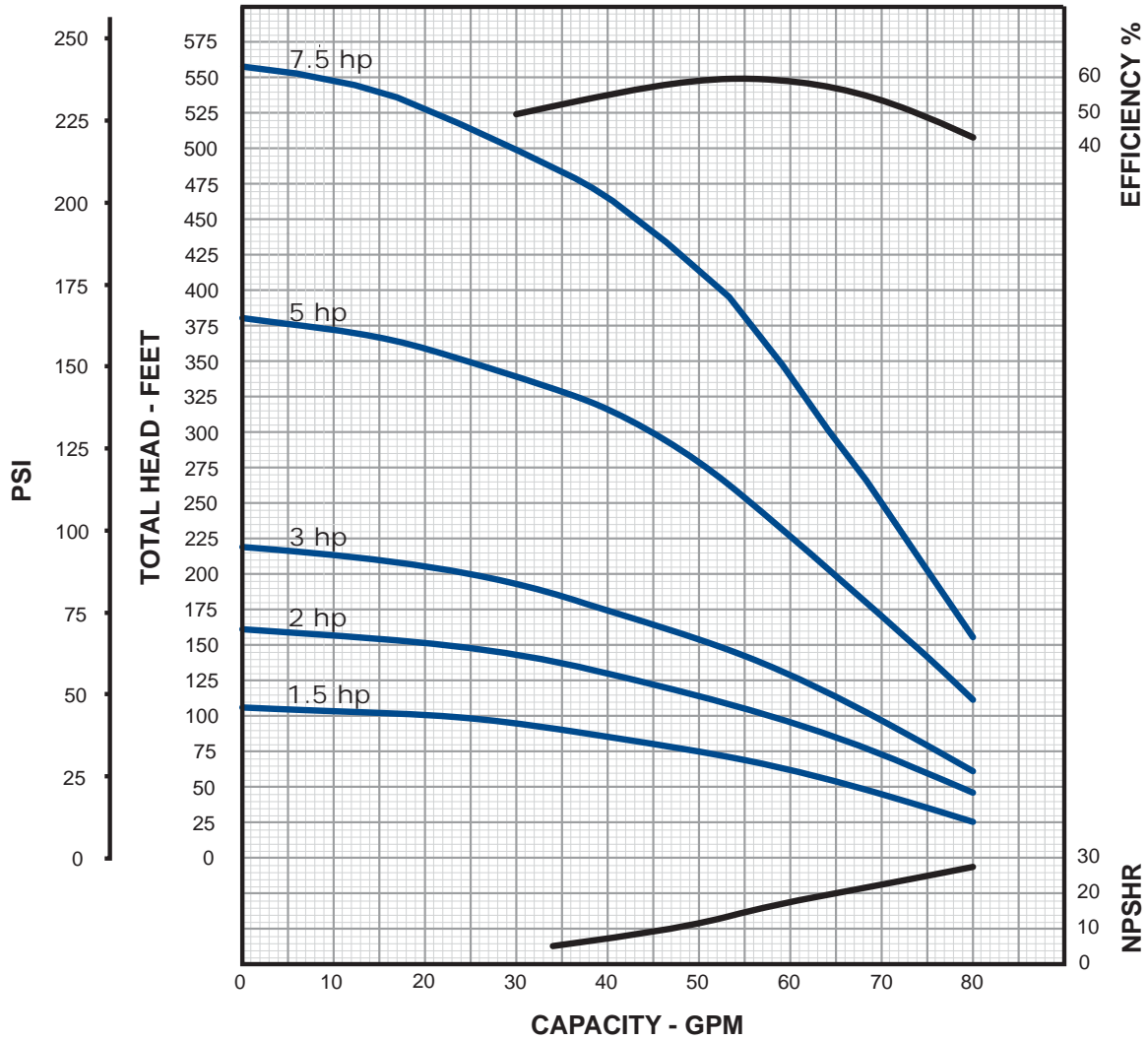
1.5 - 7.5 HP V6 SERIES BOOSTER PUMP ENDS					V6 BOOSTER PUMPS - 575 V		
GPM	HP	PUMP ENDS ONLY			THREE-PHASE - 575 V		
		MODEL NO.	ORDER NO.	WT.	MODEL NO.	ORDER NO.	WT.
50	1.5	15VB650-2	91324053	65	15VB650-2-T5	91329019	103
	2	2VB650-3	91324061	72	2VB650-3-T5	91329020	108
	3	3VB650-4	91324079	74	3VB650-4-T5	91329021	112
	5	5VB650-7	91324335	89	5VB650-7-T5	91329034	188
	7.5	75VB650-10	91324343	95	75VB650-10-T5	91329035	225
75	3	3VB675-2	91324277	70	3VB675-2-T5	91329036	108
	5	5VB675-4	91324376	75	5VB675-4-T5	91329037	182
	7.5	75VB675-6	91324285	84	75VB675-6-T5	91329038	222

Note: All weights in pounds.

Non-Submersible Pumps

Booster Pumps

V6 Series - 50 gpm Performance



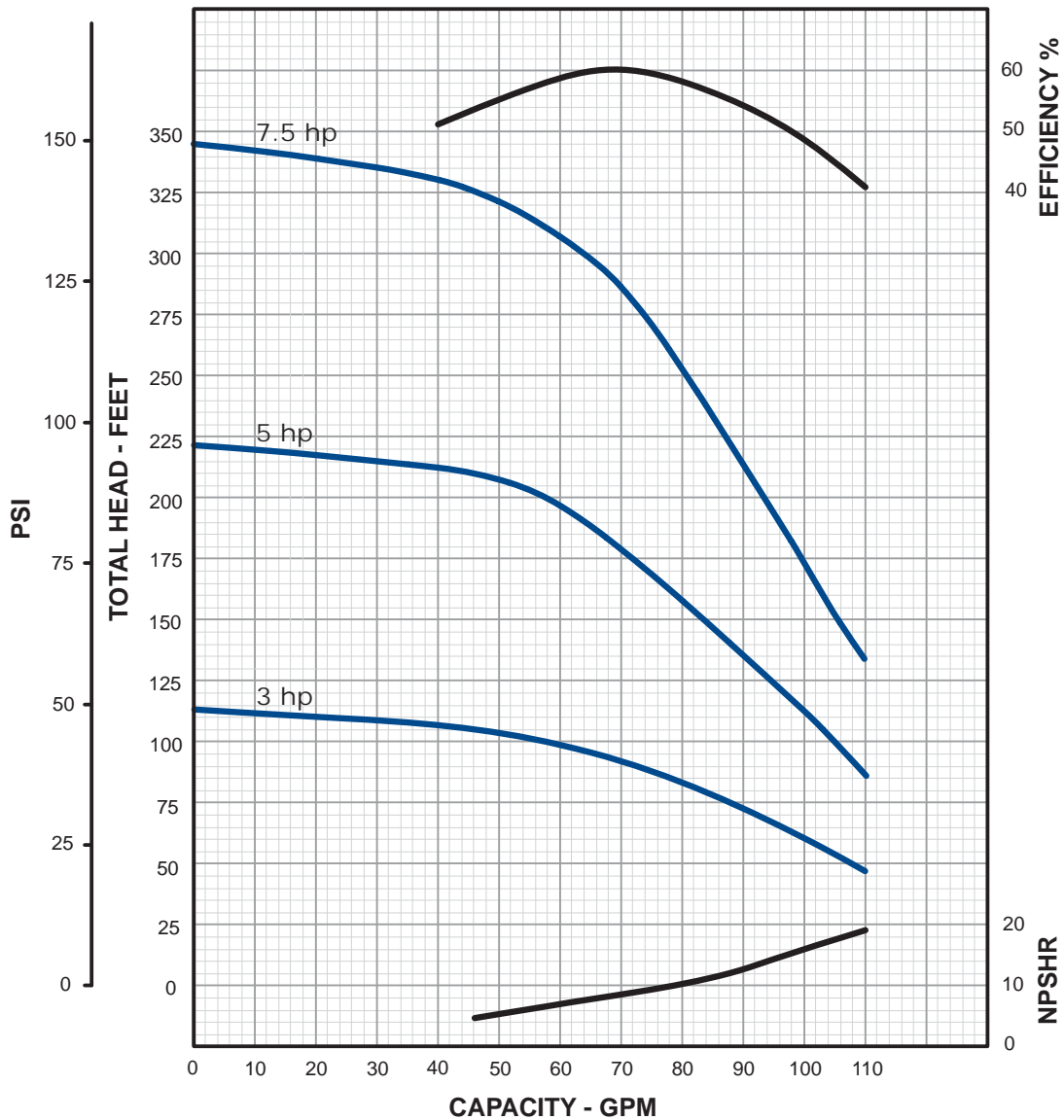
HP	DISCHARGE PRESSURE AT PUMP WITH NO LIFT (CAPACITIES IN GPM)																							MAX PRES. (PSI)
	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	
1.5	82	70	56	34																				46
2		80	72	62	50	35																		69
3			78	72	65	57	47	35	18															95
5					79	75	71	67	63	60	54	48	42	35	25	10								165
7.5								79	77	74	71	68	65	62	59	55	51	47	43	38	31	25	17	238

Note: 1. Total discharge pressure of 1.5 thru 7.5 hp. V6 series units should not exceed 150 psi.
 2. Total discharge pressure of 75VB650 units should not exceed 400 psi.

Non-Submersible Pumps

Booster Pumps

V6 Series - 75 gpm Performance



HP	DISCHARGE PRESSURE AT PUMP WITH NO LIFT (CAPACITIES IN GPM)														MAX PRES. (PSI)
	20	30	35	40	50	60	70	80	90	100	110	120	130	140	
3	100	82	70	50											48
5			108	104	94	86	76	58	20						93
7.5						106	100	94	88	82	76	66	56	20	143

Note: Total discharge pressure of V6 Series units should not exceed 150 psi.

Motors, Drives, Controls & Protection

4" Submersible Motors

2-wire Models

HP (KW)	DESCRIPTION						MOTOR MODEL	STOCK STATUS	DOWNWARD THRUST RATING
	W/PH	CONSTRUCTION	VOLTS	HZ	S.F.	LEAD IN MOTOR			
1/3 hp 0.25 kW	2-WIRE	WATER WELL	115	60	1.75		244 502 01--S		300 LBS (1500 N)
			115	60	1.75	YES	244 502 90--S	YES	
			230	60	1.75		244 503 01--S		
			230	60	1.75	YES	244 503 90--S	YES	
		POLLUTION RECOVERY	115	60	1.75		244 502 09--S		
			230	60	1.75		244 503 09--S		
1/2 hp 0.37 kW	2-WIRE	WATER WELL	115	60	1.60		244 504 01--S		300 LBS (1500 N)
			115	60	1.60	YES	244 504 90--S	YES	
			220	50	1.00		244 555 01--S		
			230	60	1.60		244 505 01--S		
		POLLUTION RECOVERY	115	60	1.60		244 504 09--S		
			230	60	1.60		244 505 09--S		
3/4 hp 0.55 kW	2-WIRE	WATER WELL	220	50	1.00		244 557 01--S		300 LBS (1500 N)
			230	60	1.50		244 507 01--S		
			230	60	1.50	YES	244 507 90--S	YES	
		POLLUTION RECOVERY	230	60	1.50		244 507 09--S		
1 hp 0.75 kW	2-WIRE	WATER WELL	220	50	1.00		244 558 12--S		650 LBS (3000 N)
			230	60	1.40		244 508 12--S		
			230	60	1.40	YES	244 508 90--S	YES	
		POLLUTION RECOVERY	230	60	1.40		244 508 23--S		
1.5 hp 1.1 kW	2-WIRE	WATER WELL	220	50	1.00		244 359 12--S		650 LBS (3000 N)
			230	60	1.30		244 309 12--S		
			230	60	1.30	YES	244 309 90--S	YES	
		POLLUTION RECOVERY	230	60	1.30		244 309 23--S		

NOTES:

1. Pack Designation: --S = Single Pack, available in any quantity. All 3 hp motors are single-packed.
2. Contact factory for lead time for non-stocked items.
3. Pallet packs available but not shown. Please contact customer service for availability.

Motors, Drives, Controls & Protection

4" Submersible Motors 3-wire Models

HP (KW)	DESCRIPTION						MOTOR MODEL	CONTROL BOX MODEL	STOCK STATUS	DOWNWARD THRUST RATING
	W/PH	CONSTRUCTION	VOLTS	HZ	S.F.	LEAD IN MOTOR				
1/3 hp 0.25 kW	3-WIRE	WATER WELL	115	60	1.75		214 502 44--S	280 102 49		300 LBS (1500 N)
			115	60	1.75	YES	214 502 90--S	280 102 49	YES	
			220	50	1.00		214 553 41--S	280 353 01		
			230	60	1.75		214 503 44--S	280 103 49		
			230	60	1.75	YES	214 503 90--S	280 103 49	YES	
		POLLUTION RECOVERY	115	60	1.75		214 502 49--S	280 102 49		
			230	60	1.75		214 503 49--S	280 103 49		
1/2 hp 0.37 kW	3-WIRE	WATER WELL	115	60	1.60		214 504 44--S	280 104 49		300 LBS (1500 N)
			115	60	1.60	YES	214 504 90--S	280 104 49	YES	
			220	50	1.00		214 555 41--S	280 355 01	YES	
			230	60	1.60		214 505 44--S	280 105 49		
			230	60	1.60	YES	214 505 90--S	280 105 49	YES	
		POLLUTION RECOVERY	115	60	1.60		214 504 49--S	280 104 49		
			230	60	1.60		214 505 49--S	280 105 49		
3/4 hp 0.55 kW	3-WIRE	WATER WELL	220	50	1.00		214 557 41--S	280 357 01	YES	300 LBS (1500 N)
			230	60	1.50		214 507 44--S	280 107 49		
			230	60	1.50	YES	214 507 90--S	280 107 49	YES	
		POLLUTION RECOVERY	230	60	1.50		214 507 49--S	280 107 49		
		SERIES 600M	230	60	1.50	YES	214 507 0600--S		YES	
1 hp 0.75 kW	3-WIRE	WATER WELL	220	50	1.00		214 558 19--S	280 358 01	YES	650 LBS (3000 N)
			230	60	1.40		214 508 12--S	280 108 49		
			230	60	1.40	YES	214 508 90--S	280 108 49	YES	
		POLLUTION RECOVERY	230	60	1.40		214 508 23--S	280 108 49		
		SERIES 600M	230	60	1.40	YES	214 508 0610--S		YES	
1.5 hp 1.1 kW	3-WIRE	WATER WELL	220	50	1.00		224 350 19--S	282 350 81	YES	650 LBS (3000 N)
			230	60	1.30		224 300 19--S	282 300 81	YES	
			230	60	1.30	YES	224 300 92--S	282 300 81	YES	
		POLLUTION RECOVERY	230	60	1.30		224 300 23--S	282 300 81		
				SERIES 600M	230	60	1.30	YES	224 300 0610--S	
2 hp 1.5 kW	3-WIRE	WATER WELL	220	50	1.00		224 351 19--S	282 351 81	YES	650 LBS (3000 N)
			230	60	1.25		224 301 19--S	282 301 81	YES	
			230	60	1.25	YES	224 301 92--S	282 301 81	YES	
		POLLUTION RECOVERY	230	60	1.25		224 301 23--S	282 301 81		
		SERIES 600M	230	60	1.25	YES	224 301 0610--S		YES	
3 hp 2.2 kW	3-WIRE	WATER WELL	220	50	1.00		224 352 25	282 352 81	YES	900 LBS (4000 N)
			230	60	1.15		224 302 25	282 302 81		
			230	60	1.15	YES	224 302 26	282 302 81	YES	
				SERIES 600M	230	60	1.15	YES	224 302 0620	

NOTES:

1. Pack Designation: --S = Single Pack, available in any quantity. All 3 hp motors are single-packed.
2. Contact factory for lead time for non-stocked items.
3. Pallet packs available but not shown. Please contact customer service for availability.

Motors, Drives, Controls & Protection

4" Submersible Motors Three-Phase Models

HP (KW)	DESCRIPTION						MODEL	STOCK STATUS	DOWNWARD THRUST RATING	
	W/PH	CONSTRUCTION	VOLTS	HZ	S.F.	LEAD IN MOTOR				
½ hp 0.37 kW	3-PHASE	WATER WELL	200	60	1.60		234 501 41--S		300 LBS (1500 N)	
			200	60	1.60	YES	234 501 92--S			
			220	50	1.00		234 551 41--S			
			230	60	1.60		234 511 41--S			
			230	60	1.60	YES	234 511 92--S			
			380/415	50	1.00		234 561 31--S	YES		
			460	60	1.60		234 521 31--S			
			460	60	1.60	YES	234 521 94--S			
		POLLUTION RECOVERY	200	60	1.60		234 501 49--S			
			230	60	1.60		234 511 49--S			
			460	60	1.60		234 521 49--S			
¾ hp 0.55 kW	3-PHASE	WATER WELL	200	60	1.50		234 502 41--S		300 LBS (1500 N)	
			200	60	1.50	YES	234 502 92--S			
			220	50	1.00		234 552 41--S			
			230	60	1.50		234 512 41--S			
			230	60	1.50	YES	234 512 92--S			
			380/415	50	1.00		234 562 31--S	YES		
			460	60	1.50		234 522 31--S			
			460	60	1.50	YES	234 522 94--S			
		POLLUTION RECOVERY	200	60	1.50		234 502 49--S			
			230	60	1.50		234 512 49--S			
			460	60	1.50		234 522 49--S			
		SERIES 600M	230	60	1.50	YES	234 512 0600--S	YES		
			460	60	1.50	YES	234 522 0600--S			
1 hp 0.75 kW	3-PHASE	WATER WELL	200	60	1.40		234 503 19--S		650 LBS (3000 N)	
			200	60	1.40	YES	234 503 92--S			
			220	50	1.00		234 553 41--S			
			230	60	1.40		234 513 19--S			
			230	60	1.40	YES	234 513 92--S	YES		
			380/415	50	1.00		234 563 31--S	YES		
			460	60	1.40		234 523 16--S			
			460	60	1.40	YES	234 523 94--S	YES		
		POLLUTION RECOVERY	200	60	1.40		234 503 23--S			
			230	60	1.40		234 513 23--S			
			460	60	1.40		234 523 23--S			
		SERIES 600M	230	60	1.40	YES	234 513 0610--S	YES		
			460	60	1.40	YES	234 523 0610--S			

NOTES:

1. Pack Designation: --S = Single Pack, available in any quantity. All 3 hp motors are single-packed.
2. Contact factory for lead time for non-stocked items.
3. Pallet packs available but not shown. Please contact customer service for availability.

4" Submersible Motors Three-Phase Models

HP (KW)	DESCRIPTION						MODEL	STOCK STATUS	DOWNWARD THRUST RATING
	W/PH	CONSTRUCTION	VOLTS	HZ	S.F.	LEAD IN MOTOR			
1.5 hp 1.1 kW	3-PHASE	WATER WELL	200	60	1.30		234 504 19--S		650 LBS (3000 N)
			200	60	1.30	YES	234 504 92--S	YES	
			220	50	1.00		234 554 19--S		
			230	60	1.30		234 514 19--S		
			230	60	1.30	YES	234 514 92--S	YES	
			460/380	60/50	1.30/1.00		234 524 16--S		
			460/380	60/50	1.30/1.00	YES	234 524 94--S	YES	
			575	60	1.30		234 534 16--S		
		575	60	1.30	YES	234 534 94--S	YES		
		POLLUTION RECOVERY	200	60	1.30		234 504 23--S		
			230	60	1.30		234 514 23--S		
			460/380	60/50	1.30/1.00		234 524 23--S		
		SERIES 600M	230	60	1.30	YES	234 514 0610--S	YES	
			460/380	60	1.30/1.00	YES	234 524 0610--S		
2 hp 1.5 kW	3-PHASE	WATER WELL	200	60	1.25		234 305 16--S		650 LBS (3000 N)
			200	60	1.25	YES	234 305 92--S	YES	
			220	50	1.00		234 355 19--S		
			230	60	1.25		234 315 16--S	YES	
			230	60	1.25	YES	234 315 92--S	YES	
			460/380	60/50	1.25/1.00		234 325 16--S	YES	
			460/380	60/50	1.25/1.00	YES	234 325 94--S	YES	
			575	60	1.25		234 335 16--S		
		575	60	1.25	YES	234 335 94--S	YES		
		POLLUTION RECOVERY	200	60	1.25		234 305 23--S		
			230	60	1.25		234 315 23--S		
			460/380	60/50	1.25/1.00		234 325 23--S		
		SERIES 600M	230	60	1.25	YES	234 315 0610--S	YES	
			460/380	60	1.25/1.00	YES	234 325 0610--S		
3 hp 2.2 kW	3-PHASE	WATER WELL	200	60	1.15		234 306 25		900 LBS (4000 N)
			200	60	1.15	YES	234 306 26	YES	
			220	50	1.00		234 356 25		
			230	60	1.15		234 316 25		
			230	60	1.15	YES	234 316 26	YES	
			380	60	1.15		234 346 25		
			380	60	1.15	YES	234 346 26	YES	
			460/380	60/50	1.15/1.00		234 326 25		
			460/380	60/50	1.15/1.00	YES	234 326 26	YES	
			575	60	1.15		234 336 25		
			575	60	1.15	YES	234 336 26	YES	
		SERIES 600M	230	60	1.15	YES	234 316 0620		
			460/380	60	1.15/1.00	YES	234 326 0620		

Motors, Drives, Controls & Protection

4" Submersible Motors Super Stainless Models

4" Super Stainless Motor Specifications:

HZ	PH	HP RANGE	KW RANGE	POLES	RPM	MAX. AMBIENT TEMP.	DUTY RATING
60	2-Wire	1/3 - 1.5	0.25 - 1.1	2	3450	86 °F/30 °C	Continuous
50	2-Wire	1/2 - 1.5	0.37 - 1.1	2	2875	86 °F/30 °C	Continuous
60	3-Wire	1/3 - 3	0.25 - 2.2	2	3450	86 °F/30 °C	Continuous*
50	3-Wire	1/3 - 3	0.25 - 2.2	2	2875	86 °F/30 °C	Continuous*
60	Three-Phase	1/3 - 3	0.37 - 2.2	2	3450	86 °F/30 °C	Continuous*
50	Three-Phase	1/3 - 3	0.37 - 2.2	2	2875	86 °F/30 °C	Continuous*

* 3 hp motors require 0.25 ft/sec flow past motor.

4" Pollution Recovery Motor Specifications:

HZ	PH	HP RANGE	KW RANGE	POLES	RPM	MAX. AMBIENT TEMP.	DUTY RATING
60	2-Wire	1/3 - 1.5	0.25 - 1.1	2	3450	86 °F/30 °C	Continuous
50	2-Wire	1/2 - 1.5	0.37 - 1.1	2	2875	86 °F/30 °C	Continuous
60	3-Wire	1/3 - 2	0.25 - 1.5	2	3450	86 °F/30 °C	Continuous*
50	3-Wire	1/3 - 2	0.25 - 1.5	2	2875	86 °F/30 °C	Continuous*
60	Three-Phase	1/2 - 2	0.37 - 1.5	2	3450	86 °F/30 °C	Continuous*
50	Three-Phase	1/2 - 2	0.37 - 1.5	2	2875	86 °F/30 °C	Continuous*

* 3 hp motors require 0.25 ft/sec flow past motor.

4" Construction Materials:

COMPONENT	CONSTRUCTION TYPE	
	STANDARD WATER WELL	POLLUTION RECOVERY
Castings	304 SS over Iron	304 SS over Iron
Stator Shell	301 SS	301 SS
Shaft Extension	17-4 SS or 303 SS	303 SS
Fasteners	305 SS or 302 SS	316 SS
Seal Cover	Acetal	Tefzel®
Seal	Nitrile Rubber Lip	Viton®
Diaphragm	Nitrile Rubber	Viton®
Slinger	Nitrile Rubber	Viton®
Lead Wire (or Cable)	XLPE	Lead not furnished with motor
Lead Potting	Epoxy	Lead not furnished with motor
Lead Jam Nut	303 SS	Lead not furnished with motor

Specifications subject to change without notice. Contact Franklin Electric if current material types are required for bid specifications.

Viton® is a registered trademark of DuPont Dow Elastomers.

Tefzel® is a registered trademark of E.I. du Pont Nemours and Company.

Motors, Drives, Controls & Protection

4" Submersible Motors High Thrust Models

HP (KW)	DESCRIPTION						MODEL	STOCK STATUS	DOWNWARD THRUST RATING
	CONSTRUCTION	PH	VOLTS	HZ	S.F.	LEAD IN MOTOR			
1.5 hp 1.1 kW	WATER WELL	1P	230	60	1.30		224 300 8600		1500 LBS (6500 N)
		3P	200	60	1.30		234 504 8600		
		3P	230	60	1.30		234 514 8600		
		3P	460/380	60/50	1.30/1.00		234 524 8600		
		3P	575	60	1.30		234 534 8600		
	316 SS	1P	230	60	1.30	YES	224 300 8502		
		3P	200	60	1.30	YES	234 504 8502		
		3P	230	60	1.30	YES	234 514 8502		
		3P	460/380	60/50	1.30/1.00	YES	234 524 8502		
		3P	575	60	1.30	YES	234 534 8502		
2 hp 1.5 kW	WATER WELL	1P	230	60	1.25	YES	224 301 8602		1500 LBS (6500 N)
		3P	200	60	1.25		234 305 8600		
		3P	230	60	1.25		234 315 8600		
		3P	460/380	60/50	1.25/1.00		234 325 8600		
		3P	575	60	1.25		234 335 8600		
	SAND FIGHTER	1P	230	60	1.15	YES	224 301 8802		
	316 SS	1P	230	60	1.25	YES	224 301 8502		
		3P	200	60	1.25	YES	234 305 8502		
		3P	230	60	1.25	YES	234 315 8502		
		3P	460/380	60/50	1.25/1.00	YES	234 325 8502		
		3P	575	60	1.25	YES	234 335 8502		
	OIL STRIPPER	1P	230	60	1.25	YES	224 301 8702		
		3P	230	60	1.25	YES	234 315 8702		
		3P	460/380	60/50	1.25/1.00	YES	234 325 8702		

Motors, Drives, Controls & Protection

4" Submersible Motors

High Thrust Models

HP (KW)	DESCRIPTION						MODEL	STOCK STATUS	DOWNWARD THRUST RATING	
	CONSTRUCTION	PH	VOLTS	HZ	S.F.	LEAD IN MOTOR				
3 hp 2.2 kW	WATER WELL	1P	220	50	1.00		224 352 8600		1500 LBS (6500 N)	
		1P	230	60	1.15		224 302 8600			
		1P	230	60	1.15		YES	224 302 8602		
		3P	200	60	1.15			234 306 8600		
		3P	200	60	1.15		YES	234 306 8602		
		3P	220	50	1.00			234 356 8600		
		3P	230	60	1.15			234 316 8600		
		3P	230	60	1.15		YES	234 316 8602		
		3P	380	60	1.15			234 346 8600		
		3P	380	60	1.15		YES	234 346 8602		
		3P	460/380	60/50	1.15/1.00			234 326 8600		
		3P	460/380	60/50	1.15/1.00		YES	234 326 8602		
		3P	575	60	1.15			234 336 8600		
		3P	575	60	1.15		YES	234 336 8602		
	COALBEAD METHANE	3P	200	60	1.15		YES	234 306 8902		
		3P	230	60	1.15		YES	234 316 8902		
		3P	460/380	60/50	1.15/1.00		YES	234 326 8902		YES
		3P	575	60	1.15		YES	234 336 8902		
		3P	380	60	1.15		YES	234 346 8902		
	SAND FIGHTER	1P	230	60	1.15		YES	224 302 8802		YES
		3P	200	60	1.15		YES	234 306 8802		
		3P	230	60	1.15		YES	234 316 8802		YES
		3P	460/380	60/50	1.15/1.00		YES	234 326 8802		YES
		3P	575	60	1.15		YES	234 336 8802		
		3P	380	60	1.15		YES	234 346 8802		
	SERIES 600M	1P	230	60	1.15		YES	224 302 0630		YES
		3P	230	60	1.15		YES	234 316 0630		YES
		3P	460/380	60	1.15/1.00		YES	234 326 0630		
	316 SS	1P	230	60	1.15		YES	224 302 8502		
		3P	200	60	1.15		YES	234 306 8502		
3P		230	60	1.15		YES	234 316 8502			
3P		460/380	60/50	1.15/1.00		YES	234 326 8502			
3P		575	60	1.15		YES	234 336 8502			
OIL STRIPPER	1P	230	60	1.15		YES	224 302 8702			
	3P	230	60	1.15		YES	234 316 8702			
	3P	460/380	60/50	1.15/1.00		YES	234 326 8702			
4 hp 3 kW	WATER WELL	3P	460/415-380	60/50	1.15/1.00		234 395 8600		1500 LBS (6500 N)	
		3P	460/415-380	60/50	1.15/1.00	YES	234 395 8602			

Motors, Drives, Controls & Protection

4" Submersible Motors High Thrust Models

HP (KW)	DESCRIPTION						MODEL	STOCK STATUS	DOWNWARD THRUST RATING	
	CONSTRUCTION	PH	VOLTS	HZ	S.F.	LEAD IN MOTOR				
5 hp 3.7 kW	WATER WELL	1P	220	50	1.00		224 353 8600	YES	1500 LBS (6500 N)	
		1P	230	60	1.15		224 303 8600			
		1P	230	60	1.15		YES	224 303 8602		YES
		3P	200	60	1.15			234 307 8600		
		3P	200	60	1.15		YES	234 307 8602		YES
		3P	220	50	1.00			234 357 8600		
		3P	230	60	1.15			234 317 8600		
		3P	230	60	1.15		YES	234 317 8602		YES
		3P	380	60	1.15			234 347 8600		
		3P	380	60	1.15		YES	234 347 8602		
		3P	460/380	60/50	1.15/1.00			234 327 8600		YES
		3P	460/380	60/50	1.15/1.00		YES	234 327 8602		YES
		3P	575	60	1.15			234 337 8600		
		3P	575	60	1.15		YES	234 337 8602		YES
	COALBED METHANE	3P	200	60	1.15		YES	234 307 8902		
		3P	230	60	1.15		YES	234 317 8902		
		3P	460/380	60/50	1.15/1.00		YES	234 327 8902		YES
		3P	575	60	1.15		YES	234 337 8902		
		3P	380	60	1.15		YES	234 347 8902		
	SAND FIGHTER	1P	230	60	1.15		YES	224 303 8802		YES
		3P	200	60	1.15		YES	234 307 8802		
		3P	230	60	1.15		YES	234 317 8802		YES
		3P	460/380	60/50	1.15/1.00		YES	234 327 8802		YES
		3P	575	60	1.15		YES	234 337 8802		
		3P	380	60	1.15		YES	234 347 8802		
	SERIES 600M	1P	230	60	1.15		YES	224 303 0630		YES
		3P	230	60	1.15		YES	234 317 0630		YES
		3P	460/380	60	1.15/1.00		YES	234 327 0630		
316 SS	1P	230	60	1.15		YES	224 303 8502			
	3P	200	60	1.15		YES	234 307 8502			
	3P	230	60	1.15		YES	234 317 8502			
	3P	460/380	60/50	1.15/1.00		YES	234 327 8502			
	3P	575	60	1.15		YES	234 337 8502			
OIL STRIPPER	1P	230	60	1.15		YES	224 303 8702			
	3P	230	60	1.15		YES	234 317 8702			
	3P	460/380	60/50	1.15/1.00		YES	234 327 8702			
5.5 hp 4 kW	WATER WELL	3P	460/380	60/50	1.15/1.00		234 397 8600		1500 LBS (6500 N)	
		3P	460/380	60/50	1.15/1.00		YES	234 397 8602		

Motors, Drives, Controls & Protection

4" Submersible Motors

High Thrust Models

HP (KW)	DESCRIPTION						MODEL	STOCK STATUS	DOWNWARD THRUST RATING
	CONSTRUCTION	PH	VOLTS	HZ	S.F.	LEAD IN MOTOR			
7.5 hp 5.5 kW	WATER WELL	3P	200	60	1.15		234 308 8600		1500 LBS (6500 N)
		3P	200	60	1.15	YES	234 308 8602	YES	
		3P	220	50	1.00		234 358 8600		
		3P	230	60	1.15		234 318 8600		
		3P	230	60	1.15	YES	234 318 8602	YES	
		3P	380	60	1.15		234 348 8600		
		3P	380	60	1.15	YES	234 348 8602		
		3P	460/380	60/50	1.15/1.00		234 328 8600	YES	
		3P	460/380	60/50	1.15/1.00	YES	234 328 8602	YES	
		3P	575	60	1.15		234 338 8600		
	3P	575	60	1.15	YES	234 338 8602	YES		
	COALBED METHANE	3P	200	60	1.15	YES	234 308 8904		
		3P	230	60	1.15	YES	234 318 8904		
		3P	460/380	60/50	1.15/1.00	YES	234 328 8904	YES	
		3P	575	60	1.15	YES	234 338 8904		
		3P	380	60	1.15	YES	234 348 8904		
	SAND FIGHTER	3P	200	60	1.15	YES	234 308 8802		
		3P	230	60	1.15	YES	234 318 8802	YES	
		3P	460/380	60/50	1.15/1.00	YES	234 328 8802	YES	
		3P	575	60	1.15	YES	234 338 8802		
		3P	380	60	1.15	YES	234 348 8802		
	316 SS	3P	200	60	1.15	YES	234 308 8502		
		3P	230	60	1.15	YES	234 318 8502		
		3P	460/380	60/50	1.15/1.00	YES	234 328 8502		
3P		575	60	1.15	YES	234 338 8502			
OIL STRIPPER	3P	230	60	1.15	YES	234 318 8702			
	3P	460/380	60/50	1.15/1.00	YES	234 328 8702			
10 hp 7.5 kW	WATER WELL	3P	380	60	1.15	YES	234 549 8602		
		3P	460/380	60/50	1.15/1.00	YES	234 595 8602	YES	
		3P	575	60	1.15	YES	234 598 8602	YES	
	COALBED METHANE	3P	380	60	1.15	YES	234 549 8904		
		3P	460/380	60/50	1.15/1.00	YES	234 595 8904	YES	
		3P	575	60	1.15	YES	234 598 8904		
	SAND FIGHTER	3P	380	60	1.15	YES	234 549 8802		
		3P	460/380	60/50	1.15/1.00	YES	234 595 8802	YES	
		3P	575	60	1.15	YES	234 598 8802		

4" Submersible Motors High Thrust Models

4" High Thrust Motor Specifications:

HZ	PH	HP RANGE	KW RANGE	POLES	RPM	MAX. AMBIENT TEMP.	DUTY RATING
60	1	1.5 - 5	1.1 - 3.7	2	3450	86 °F/30 °C	Continuous at 0.25 ft/sec flow past motor
50	1	1.5 - 5	1.1 - 3.7	2	2875	86 °F/30 °C	Continuous at 0.25 ft/sec flow past motor
60	3	1.5 - 10	1.1 - 7.5	2	3450	86 °F/30 °C	Continuous at 0.25 ft/sec flow past motor
50	3	1.5 - 10	1.1 - 7.5	2	2875	86 °F/30 °C	Continuous at 0.25 ft/sec flow past motor

NOTE: Not all ratings available in all construction options.

4" High Thrust Construction Materials:

COMPONENT	CONSTRUCTION TYPE		
	STANDARD WATER WELL	COALBED METHANE	SAND FIGHTER™
Top Castings	303 SS	303 SS	303 SS
Bottom Castings	303 SS Over Iron, Painted Cast Iron	303 SS Over Iron, Painted Cast Iron	303 SS Over Iron, Painted Cast Iron
Stator Shell	301 SS	301 SS	301 SS
Stator Ends	Low Carbon Steel	Low Carbon Steel	Low Carbon Steel
Shaft Extension	17-4 SS	17-4 SS	17-4 SS
Fasteners	300 Series SS	300 Series SS	300 Series SS
Seal Cover	Acetal	Sintered Bronze	Sintered Bronze
Seal	Nitrile Rubber Lip	Sand Fighter™ SiC/ SiC Mech. Seal	Sand Fighter SiC/ SiC Mech. Seal
Diaphragm	Nitrile Rubber	Nitrile Rubber	Nitrile Rubber
Diaphragm Cup	316 SS	316 SS	316 SS
Diaphragm Spring	316 SS	316 SS	316 SS
Diaphragm Cover	Gray Iron	Gray Iron	304 SS
Slinger	Nitrile Rubber	Nitrile Rubber	Nitrile Rubber
Lead Wire (or Cable)	XLPE*	XLPE*	XLPE*
Lead Potting	Epoxy	Epoxy	Epoxy
Lead Screws / Clamp	316 SS	316 SS	316 SS
Filter	Delrin & Polyester	Delrin & Polyester	Delrin & Polyester

COMPONENT	CONSTRUCTION TYPE	
	CHEMICAL (316 STNLS)	OIL STRIPPER
Top Casting	316 SS	316 SS
Bottom Casting	316 SS	316 SS
Stator Shell	316 SS	316 SS
Stator Ends	316 SS	316 SS
Shaft Extension	17-4 SS	17-4 SS
Fasteners	316 SS	316 SS
Seal Cover	316 SS	316 SS
Seal	Sand Fighter SiC Mech. Seal	Sand Fighter Viton®
Diaphragm	Nitrile Rubber	Viton®
Diaphragm Cup	316 SS	316 SS
Diaphragm Spring	316 SS	316 SS
Diaphragm Cover	316 SS	316 SS
Slinger	Nitrile Rubber	Viton®
Lead Wire (or Cable)	XLPE*	XLPE*
Lead Potting	Epoxy	Epoxy
Lead Screws/Clamp	316 SS	316 SS
Filter	316 SS Plug	316 SS Plug

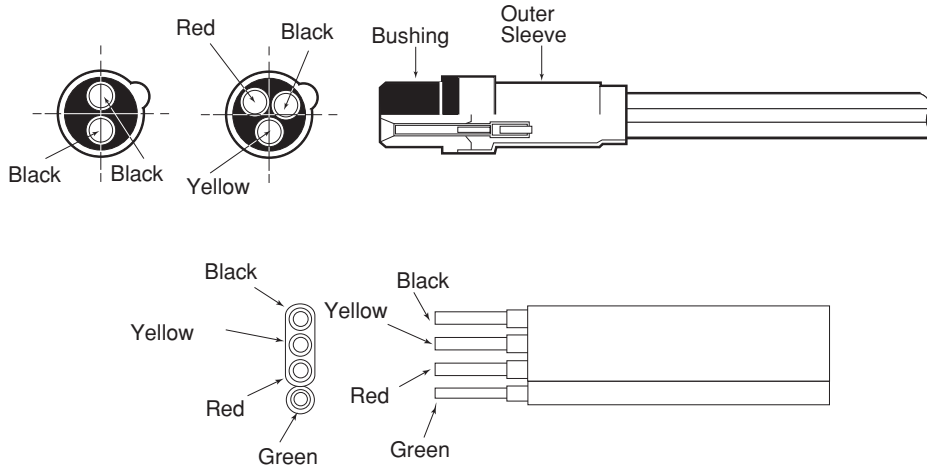
* Removable type, factory-installed in 60 Hz and dual frequency rated water well motors. Consult catalog for additional leads.

Specifications subject to change without notice. Contact Franklin Electric if current material types are required for bid specifications.

Viton® is a registered trademark of DuPont Dow Elastomers.

4" Submersible Motors

Leads & Cables



WIRE	CONSTRUCTION	MATERIAL	LEAD LENGTH		WIRE SIZE	GROUNDED	JAM NUT MODEL	CLAMP STYLE MODEL
			IN / FT	M				
2W	INDIVIDUAL	NITRILE*	48 in	1.2	AWG 14	NO	152 328 905	N/A
	INDIVIDUAL	NITRILE*	100 in	2.5	AWG 14	NO	152 328 906	N/A
	INDIVIDUAL	XLPE	48 in	1.2	AWG 14	YES	152 552 905	N/A
	INDIVIDUAL	XLPE	100 in	2.5	AWG 14	YES	152 552 906	N/A
3W	INDIVIDUAL	XLPE	48 in	1.2	AWG 14	YES	152 553 905	152 735 911
	INDIVIDUAL	XLPE	100 in	2.5	AWG 14	YES	152 553 906	152 735 941
	INDIVIDUAL	NITRILE*	48 in	1.2	AWG 14	NO	152 255 901	N/A
	INDIVIDUAL	NITRILE*	100 in	2.5	AWG 14	NO	152 255 902	152 744 902
	INDIVIDUAL	NITRILE*	160 in	4.0	AWG 14	NO	152 255 904	152 744 904
	INDIVIDUAL	NITRILE*	30 ft	9.1	AWG 14	NO	152 255 906	152 744 906
	INDIVIDUAL	NITRILE*	50 ft	15.2	AWG 14	NO	152 255 907	152 744 907
	INDIVIDUAL	NITRILE*	100 ft	30.5	AWG 14	NO	152 255 910	152 744 910
	INDIVIDUAL	NITRILE*	150 ft	45.7	AWG 14	NO	152 255 912	N/A
	INDIVIDUAL / DBL CONN	XLPE	48 in	1.2	AWG 14	YES	152 570 901	N/A
	INDIVIDUAL / DBL CONN	XLPE	100 in	2.5	AWG 14	YES	152 570 902	N/A

* Nitrile material not for use in potable water.

NOTES:

1. Refer to Franklin Application Installation Maintenance (AIM) Manual for accurate cable sizing.
2. MOTOR WARRANTY IS VOID if Franklin-supplied leads are not used.

Motors, Drives, Controls & Protection

6" Submersible Motors Standard Models

HP (KW)	CONSTRUCTION	DESCRIPTION							MODEL	STOCK STATUS
		PH	VOLTS	HZ	SUBTROL HEAT SENSOR	S.F.	# LEADS	WIRE SIZE (AWG)		
5 hp 3.7 kW	WATER WELL	1P	230	60	Not Available	1.15	3	#10 w/GND	226 110 90	YES
		3P	200-208	60	Not Available	1.15	3	#10 w/GND	236 650 90	YES
		3P	220	50	Not Available	1.00	3	#10 w/GND	236 680 90	
		3P	220	50	Not Available	1.00	6-90 °	#10 w/GND	236 670 90	
		3P	230	60	Not Available	1.15	3	#10 w/GND	236 600 90	YES
		3P	230	60	Not Available	1.15	6-90 °	#10 w/GND	236 720 90	
		3P	380	60	Not Available	1.15	3	#10 w/GND	236 660 90	
		3P	380	60	Not Available	1.15	6-90 °	#10 w/GND	236 780 90	
		3P	415	50	Not Available	1.00	3	#10 w/GND	236 690 90	
		3P	460/380-415	60/50	Not Available	1.15/1.00	3	#10 w/GND	236 610 90	YES
		3P	460/380-415	60/50	Not Available	1.15/1.00	6-90 °	#10 w/GND	236 710 90	
		3P	575	60	Not Available	1.15	3	#10 w/GND	236 620 90	
	SAND FIGHTER	1P	230	60	Not Available	1.15	3	#10 w/GND	226 110 80	YES
		3P	200-208	60	YES	1.15	3	#10 w/GND	236 650 81	YES
		3P	220	50	YES	1.00	3	#10 w/GND	236 680 81	
		3P	220	50	YES	1.00	6-90 °	#10 w/GND	236 670 81	
		3P	230	60	YES	1.15	3	#10 w/GND	236 600 81	YES
		3P	230	60	YES	1.15	6-90 °	#10 w/GND	236 720 81	
		3P	380	60	YES	1.15	3	#10 w/GND	236 660 81	
		3P	380	60	YES	1.15	6-90 °	#10 w/GND	236 780 81	
		3P	415	50	YES	1.00	3	#10 w/GND	236 690 81	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 610 81	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90 °	#10 w/GND	236 710 81	
		3P	575	60	YES	1.15	3	#10 w/GND	236 620 81	YES
	316 SS	1P	230	60	Not Available	1.15	3	#10 w/GND	226 110 39	
		3P	200-208	60	YES	1.15	3	#10 w/GND	236 650 40	
		3P	220	50	YES	1.00	3	#10 w/GND	236 680 40	
		3P	220	50	YES	1.00	6-90 °	#10 w/GND	236 670 40	
		3P	230	60	YES	1.15	3	#10 w/GND	236 600 40	YES
		3P	230	60	YES	1.15	6-90 °	#10 w/GND	236 720 40	
		3P	380	60	YES	1.15	3	#10 w/GND	236 660 40	
		3P	380	60	YES	1.15	6-90 °	#10 w/GND	236 780 40	
		3P	415	50	YES	1.15	3	#10 w/GND	236 690 40	
3P		460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 610 40	YES	
3P		460/380-415	60/50	YES	1.15/1.00	6-90 °	#10 w/GND	236 710 40		
3P		575	60	YES	1.15	3	#10 w/GND	236 620 40		

Motors, Drives, Controls & Protection

6" Submersible Motors

Standard Models

HP (KW)	CONSTRUCTION	DESCRIPTION							MODEL	STOCK STATUS
		PH	VOLTS	HZ	SUBTROL HEAT SENSOR	S.F.	# LEADS	WIRE SIZE (AWG)		
7.5 hp 5.5 kW	WATER WELL	1P	230	60	Not Available	1.15	3	#10 w/GND	226 111 90	YES
		3P	200-208	60	Not Available	1.15	3	#10 w/GND	236 651 90	YES
		3P	220	50	Not Available	1.00	3	#10 w/GND	236 681 90	
		3P	220	50	Not Available	1.00	6-90 °	#10 w/GND	236 671 90	
		3P	230	60	Not Available	1.15	3	#10 w/GND	236 601 90	YES
		3P	230	60	Not Available	1.15	6-90 °	#10 w/GND	236 721 90	
		3P	380	60	Not Available	1.15	3	#10 w/GND	236 661 90	YES
		3P	380	60	Not Available	1.15	6-90 °	#10 w/GND	236 781 90	
		3P	415	50	Not Available	1.00	3	#10 w/GND	236 691 90	
		3P	460/380-415	60/50	Not Available	1.15/1.00	3	#10 w/GND	236 611 90	YES
		3P	460/380-415	60/50	Not Available	1.15/1.00	6-90 °	#10 w/GND	236 711 90	YES
		3P	575	60	Not Available	1.15	3	#10 w/GND	236 621 90	
	SAND FIGHTER	1P	230	60	Not Available	1.15	3	#10 w/GND	226 111 80	YES
		3P	200-208	60	YES	1.15	3	#10 w/GND	236 651 81	YES
		3P	220	50	YES	1.00	3	#10 w/GND	236 681 81	
		3P	220	50	YES	1.00	6-90 °	#10 w/GND	236 671 81	
		3P	230	60	YES	1.15	3	#10 w/GND	236 601 81	YES
		3P	230	60	YES	1.15	6-90 °	#10 w/GND	236 721 81	
		3P	380	60	YES	1.15	3	#10 w/GND	236 661 81	
		3P	380	60	YES	1.15	6-90 °	#10 w/GND	236 781 81	
		3P	415	50	YES	1.00	3	#10 w/GND	236 691 81	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 611 81	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90 °	#10 w/GND	236 711 81	
		3P	575	60	YES	1.15	3	#10 w/GND	236 621 81	YES
	316 SS	1P	230	60	Not Available	1.15	3	#10 w/GND	226 111 39	
		3P	200-208	60	YES	1.15	3	#10 w/GND	236 651 40	
		3P	220	50	YES	1.00	3	#10 w/GND	236 681 40	
		3P	220	50	YES	1.00	6-90 °	#10 w/GND	236 671 40	
		3P	230	60	YES	1.15	3	#10 w/GND	236 601 40	YES
		3P	230	60	YES	1.15	6-90 °	#10 w/GND	236 721 40	
		3P	380	60	YES	1.15	3	#10 w/GND	236 661 40	
		3P	380	60	YES	1.15	6-90 °	#10 w/GND	236 781 40	
		3P	415	50	YES	1.00	3	#10 w/GND	236 691 81	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 611 40	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90 °	#10 w/GND	236 711 40	
		3P	575	60	YES	1.15	3	#10 w/GND	236 621 40	

Motors, Drives, Controls & Protection

6" Submersible Motors Standard Models

HP (KW)	CONSTRUCTION	DESCRIPTION							MODEL	STOCK STATUS
		PH	VOLTS	HZ	SUBTROL HEAT SENSOR	S.F.	# LEADS	WIRE SIZE (AWG)		
10 hp 7.5 kW	WATER WELL	1P	230	60	Not Available	1.15	3	#10 w/GND	226 112 90	YES
		3P	200-208	60	Not Available	1.15	3	#10 w/GND	236 652 90	YES
		3P	220	50	Not Available	1.00	3	#10 w/GND	236 682 90	
		3P	220	50	Not Available	1.00	6-90 °	#10 w/GND	236 672 90	
		3P	230	60	Not Available	1.15	3	#10 w/GND	236 602 90	YES
		3P	230	60	Not Available	1.15	6-90°	#10 w/GND	236 722 90	
		3P	380	60	Not Available	1.15	3	#10 w/GND	236 662 90	YES
		3P	380	60	Not Available	1.15	6-90 °	#10 w/GND	236 782 90	
		3P	415	50	Not Available	1.00	3	#10 w/GND	236 692 90	
		3P	460/380-415	60/50	Not Available	1.15/1.00	3	#10 w/GND	236 612 90	YES
	3P	460/380-415	60/50	Not Available	1.15/1.00	6-90 °	#10 w/GND	236 712 90	YES	
	3P	575	60	Not Available	1.15	3	#10 w/GND	236 622 90		
	SAND FIGHTER	1P	230	60	Not Available	1.15	3	#10 w/GND	226 112 80	YES
		3P	200-208	60	YES	1.15	3	#10 w/GND	236 652 81	YES
		3P	220	50	YES	1.00	3	#10 w/GND	236 682 81	
		3P	220	50	YES	1.00	6-90 °	#10 w/GND	236 672 81	
		3P	230	60	YES	1.15	3	#10 w/GND	236 602 81	YES
		3P	230	60	YES	1.15	6-90 °	#10 w/GND	236 722 81	
		3P	380	60	YES	1.15	3	#10 w/GND	236 662 81	
		3P	380	60	YES	1.15	6-90 °	#10 w/GND	236 782 81	
		3P	415	50	YES	1.00	3	#10 w/GND	236 692 81	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 612 81	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90 °	#10 w/GND	236 712 81	
		3P	575	60	YES	1.15	3	#10 w/GND	236 622 81	YES
	316 SS	1P	230	60	Not Available	1.15	3	#10 w/GND	226 112 39	
		3P	200-208	60	YES	1.15	3	#10 w/GND	236 652 40	
		3P	220	50	YES	1.00	3	#10 w/GND	236 682 40	
		3P	220	50	YES	1.00	6-90 °	#10 w/GND	236 672 40	
		3P	230	60	YES	1.15	3	#10 w/GND	236 602 40	YES
		3P	230	60	YES	1.15	6-90 °	#10 w/GND	236 722 40	
3P		380	60	YES	1.15	3	#10 w/GND	236 662 40		
3P		380	60	YES	1.15	6-90 °	#10 w/GND	236 782 40		
3P		415	50	YES	1.00	3	#10 w/GND	236 692 40		
3P		460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 612 40	YES	
3P		460/380-415	60/50	YES	1.15/1.00	6-90 °	#10 w/GND	236 712 40		
3P		575	60	YES	1.15	3	#10 w/GND	236 622 40		

Motors, Drives, Controls & Protection

6" Submersible Motors Standard Models

HP (KW)	CONSTRUCTION	DESCRIPTION							MODEL	STOCK STATUS
		PH	VOLTS	HZ	SUBTROL HEAT SENSOR	S.F.	# LEADS	WIRE SIZE (AWG)		
15 hp 11 kW	WATER WELL	1P	230	60	Not Available	1.15	3	#10 w/GND	226 113 90	YES
		3P	200-208	60	Not Available	1.15	3	#10 w/GND	236 653 90	YES
		3P	220	50	Not Available	1.00	3	#10 w/GND	236 683 90	
		3P	220	50	Not Available	1.00	6-90 °	#10 w/GND	236 673 90	
		3P	230	60	Not Available	1.15	3	#10 w/GND	236 603 90	YES
		3P	230	60	Not Available	1.15	6-90 °	#10 w/GND	236 723 90	YES
		3P	380	60	Not Available	1.15	3	#10 w/GND	236 663 90	YES
		3P	380	60	Not Available	1.15	6-90 °	#10 w/GND	236 783 90	
		3P	415	50	Not Available	1.00	3	#10 w/GND	236 693 90	
		3P	460/380-415	60/50	Not Available	1.15/1.00	3	#10 w/GND	236 613 90	YES
		3P	460/380-415	60/50	Not Available	1.15/1.00	6-90 °	#10 w/GND	236 713 90	YES
	3P	575	60	Not Available	1.15	3	#10 w/GND	236 623 90		
	SAND FIGHTER	1P	230	60	Not Available	1.15	3	#10 w/GND	226 113 80	YES
		3P	200-208	60	YES	1.15	3	#10 w/GND	236 653 81	YES
		3P	220	50	YES	1.00	3	#10 w/GND	236 683 81	
		3P	220	50	YES	1.00	6-90 °	#10 w/GND	236 673 81	
		3P	230	60	YES	1.15	3	#10 w/GND	236 603 81	YES
		3P	230	60	YES	1.15	6-90 °	#10 w/GND	236 723 81	
		3P	380	60	YES	1.15	3	#10 w/GND	236 663 81	
		3P	380	60	YES	1.15	6-90 °	#10 w/GND	236 783 81	
		3P	415	50	YES	1.00	3	#10 w/GND	236 693 81	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 613 81	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90 °	#10 w/GND	236 713 81	
	3P	575	60	YES	1.15	3	#10 w/GND	236 623 81	YES	
	316 SS	1P	230	60	Not Available	1.15	3	#10 w/GND	226 113 39	
		3P	200-208	60	YES	1.15	3	#10 w/GND	236 653 40	
		3P	220	50	YES	1.00	3	#10 w/GND	236 683 40	
		3P	220	50	YES	1.00	6-90 °	#10 w/GND	236 673 40	
		3P	230	60	YES	1.15	3	#10 w/GND	236 603 40	YES
		3P	230	60	YES	1.15	6-90 °	#10 w/GND	236 723 40	
		3P	380	60	YES	1.15	3	#10 w/GND	236 663 40	
		3P	380	60	YES	1.15	6-90 °	#10 w/GND	236 783 40	
		3P	415	50	YES	1.00	3	#10 w/GND	236 693 40	
3P		460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 613 40	YES	
3P		460/380-415	60/50	YES	1.15/1.00	6-90 °	#10 w/GND	236 713 40		
3P	575	60	YES	1.15	3	#10 w/GND	236 623 40			

Motors, Drives, Controls & Protection

6" Submersible Motors Standard Models

HP (KW)	CONSTRUCTION	DESCRIPTION							MODEL	STOCK STATUS
		PH	VOLTS	HZ	SUBTROL HEAT SENSOR	S.F.	# LEADS	WIRE SIZE (AWG)		
20 hp 15 kW	WATER WELL	3P	200-208	60	Not Available	1.15	3	#8 w/GND	236 654 90	YES
		3P	220	50	Not Available	1.00	3	#8 w/GND	236 684 90	
		3P	220	60	Not Available	1.15	6-90 °	#10 w/GND	236 674 90	
		3P	230	60	Not Available	1.15	3	#8 w/GND	236 604 90	YES
		3P	230	60	Not Available	1.15	6-90 °	#10 w/GND	236 724 90	
		3P	380	60	Not Available	1.15	3	#10 w/GND	236 664 90	YES
		3P	380	60	Not Available	1.15	6-90 °	#10 w/GND	236 784 90	
		3P	415	50	Not Available	1.00	3	#10 w/GND	236 694 90	
		3P	460/380-415	60/50	Not Available	1.15/1.00	3	#10 w/GND	236 614 90	YES
		3P	460/380-415	60/50	Not Available	1.15/1.00	6-90 °	#10 w/GND	236 714 90	YES
		3P	575	60	Not Available	1.15	3	#10 w/GND	236 624 90	
	SAND FIGHTER	3P	200-208	60	YES	1.15	3	#8 w/GND	236 654 81	YES
		3P	220	50	YES	1.00	3	#8 w/GND	236 684 81	
		3P	220	50	YES	1.00	6-90 °	#10 w/GND	236 674 81	
		3P	230	60	YES	1.15	3	#8 w/GND	236 604 81	YES
		3P	230	60	YES	1.15	6-90 °	#10 w/GND	236 724 81	YES
		3P	380	60	YES	1.15	3	#10 w/GND	236 664 81	
		3P	380	60	YES	1.15	6-90 °	#10 w/GND	236 784 81	
		3P	415	50	YES	1.00	3	#10 w/GND	236 694 81	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 614 81	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90 °	#10 w/GND	236 714 81	
		3P	575	60	YES	1.15	3	#10 w/GND	236 624 81	YES
	316 SS	3P	200-208	60	YES	1.15	3	#8 w/GND	236 654 40	
		3P	220	50	YES	1.00	3	#8 w/GND	236 684 40	
		3P	220	50	YES	1.00	6-90 °	#10 w/GND	236 674 40	
		3P	230	60	YES	1.15	3	#8 w/GND	236 604 40	YES
		3P	230	60	YES	1.15	6-90 °	#10 w/GND	236 724 40	
		3P	380	60	YES	1.15	3	#10 w/GND	236 664 40	
		3P	380	60	YES	1.15	6-90 °	#10 w/GND	236 784 40	
		3P	415	50	YES	1.00	3	#10 w/GND	236 694 40	
3P		460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 614 40	YES	
3P		460/380-415	60/50	YES	1.15/1.00	6-90 °	#10 w/GND	236 714 40		
3P		575	60	YES	1.15	3	#10 w/GND	236 624 40		

Motors, Drives, Controls & Protection

6" Submersible Motors

Standard Models

HP (KW)	CONSTRUCTION	DESCRIPTION							MODEL	STOCK STATUS
		PH	VOLTS	HZ	SUBTROL HEAT SENSOR	S.F.	# LEADS	WIRE SIZE (AWG)		
25 hp 18.5 kW	WATER WELL	3P	200-208	60	Not Available	1.15	3	#8 w/GND	236 655 90	YES
		3P	220	50	Not Available	1.00	3	#8 w/GND	236 685 90	
		3P	220	50	Not Available	1.00	6-90 °	#10 w/GND	236 675 90	
		3P	230	60	Not Available	1.15	3	#8 w/GND	236 605 90	YES
		3P	230	60	Not Available	1.15	6-90 °	#10 w/GND	236 725 90	
		3P	380	60	Not Available	1.15	3	#10 w/GND	236 665 90	YES
		3P	380	60	Not Available	1.15	6-90 °	#10 w/GND	236 785 90	
		3P	415	50	Not Available	1.00	3	#10 w/GND	236 695 90	
		3P	460/380-415	60/50	Not Available	1.15/1.00	3	#10 w/GND	236 615 90	YES
		3P	460/380-415	60/50	Not Available	1.15/1.00	6-90 °	#10 w/GND	236 715 90	YES
		3P	575	60	Not Available	1.15	3	#10 w/GND	236 625 90	
	SAND FIGHTER	3P	200-208	60	YES	1.15	3	#8 w/GND	236 655 81	YES
		3P	220	50	YES	1.00	3	#8 w/GND	236 685 81	
		3P	220	50	YES	1.00	6-90 °	#10 w/GND	236 675 81	
		3P	230	60	YES	1.15	3	#8 w/GND	236 605 81	YES
		3P	230	60	YES	1.15	6-90 °	#10 w/GND	236 725 81	YES
		3P	380	60	YES	1.15	3	#10 w/GND	236 665 81	
		3P	380	60	YES	1.15	6-90 °	#10 w/GND	236 785 81	
		3P	415	50	YES	1.00	3	#10 w/GND	236 695 81	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 615 81	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90 °	#10 w/GND	236 715 81	
		3P	575	60	YES	1.15	3	#10 w/GND	236 625 81	YES
	316 SS	3P	200-208	60	YES	1.15	3	#8 w/GND	236 655 40	
		3P	220	50	YES	1.00	3	#8 w/GND	236 685 40	
		3P	220	50	YES	1.00	6-90°	#10 w/GND	236 675 40	
		3P	230	60	YES	1.15	3	#8 w/GND	236 605 40	
		3P	230	60	YES	1.15	6-90 °	#10 w/GND	236 725 40	
		3P	380	60	YES	1.15	3	#10 w/GND	236 665 40	
		3P	380	60	YES	1.15	6-90 °	#10 w/GND	236 785 40	
		3P	415	50	YES	1.00	3	#10 w/GND	236 695 40	
3P		460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 615 40	YES	
3P		460/380-415	60/50	YES	1.15/1.00	6-90 °	#10 w/GND	236 715 40		
3P		575	60	YES	1.15	3	#10 w/GND	236 625 40		

Motors, Drives, Controls & Protection

6" Submersible Motors Standard Models

HP (KW)	CONSTRUCTION	DESCRIPTION							MODEL	STOCK STATUS
		PH	VOLTS	HZ	SUBTROL HEAT SENSOR	S.F.	# LEADS	WIRE SIZE (AWG)		
30 hp 22 kW	WATER WELL	3P	200-208	60	Not Available	1.15	3	#8 w/GND	236 656 90	YES
		3P	220	50	Not Available	1.00	3	#8 w/GND	236 686 90	
		3P	220	50	Not Available	1.00	6-90 °	#10 w/GND	236 676 90	
		3P	230	60	Not Available	1.15	3	#8 w/GND	236 606 90	YES
		3P	230	60	Not Available	1.15	6-90 °	#10 w/GND	236 726 90	
		3P	380	60	Not Available	1.15	3	#10 w/GND	236 666 90	YES
		3P	380	60	Not Available	1.15	6-90 °	#10 w/GND	236 786 90	
		3P	415	50	Not Available	1.00	3	#10 w/GND	236 696 90	
		3P	460/380-415	60/50	Not Available	1.15/1.00	3	#10 w/GND	236 616 90	YES
		3P	460/380-415	60/50	Not Available	1.15/1.00	6-90 °	#10 w/GND	236 716 90	YES
		3P	575	60	Not Available	1.15	3	#10 w/GND	236 626 90	
	SAND FIGHTER	3P	200-208	60	YES	1.15	3	#8 w/GND	236 656 81	YES
		3P	220	50	YES	1.00	3	#8 w/GND	236 686 81	
		3P	220	50	YES	1.00	6-90 °	#10 w/GND	236 676 81	
		3P	230	60	YES	1.15	3	#8 w/GND	236 606 81	YES
		3P	230	60	YES	1.15	6-90 °	#10 w/GND	236 726 81	YES
		3P	380	60	YES	1.15	3	#10 w/GND	236 666 81	
		3P	380	60	YES	1.15	6-90 °	#10 w/GND	236 786 81	
		3P	415	50	YES	1.00	3	#10 w/GND	236 696 81	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 616 81	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90 °	#10 w/GND	236 716 81	
		3P	575	60	YES	1.15	3	#10 w/GND	236 626 81	YES
	316 SS	3P	200-208	60	YES	1.15	3	#8 w/GND	236 656 40	
		3P	220	50	YES	1.00	3	#8 w/GND	236 686 40	
		3P	220	50	YES	1.00	6-90 °	#10 w/GND	236 676 40	
		3P	230	60	YES	1.15	3	#8 w/GND	236 606 40	
		3P	230	60	YES	1.15	6-90 °	#10 w/GND	236 726 40	
		3P	380	60	YES	1.15	3	#10 w/GND	236 666 40	
		3P	380	60	YES	1.15	6-90 °	#10 w/GND	236 786 40	
		3P	415	50	YES	1.00	3	#10 w/GND	236 696 40	
3P		460/380-415	60/50	YES	1.15/1.00	3	#10 w/GND	236 616 40	YES	
3P		460/380-415	60/50	YES	1.15/1.00	6-90 °	#10 w/GND	236 716 40		
3P		575	60	YES	1.15	3	#10 w/GND	236 626 40		

Motors, Drives, Controls & Protection

6" Submersible Motors Standard Models

HP (KW)	CONSTRUCTION	DESCRIPTION							MODEL	STOCK STATUS
		PH	VOLTS	HZ	SUBTROL HEAT SENSOR	S.F.	# LEADS	WIRE SIZE (AWG)		
40 hp 30 kW	WATER WELL	3P	380	60	Not Available	1.15	3	#8 w/GND	236 667 90	
		3P	380	60	Not Available	1.15	6-90 °	#10 w/GND	236 787 90	
		3P	415	50	Not Available	1.00	3	#8 w/GND	236 697 90	
		3P	460/380-415	60/50	Not Available	1.15/1.00	3	#8 w/GND	236 617 90	YES
		3P	460/380-415	60/50	Not Available	1.15/1.00	6-90 °	#10 w/GND	236 717 90	
		3P	575	60	Not Available	1.15	3	#8 w/GND	236 627 90	
	SAND FIGHTER	3P	380	60	YES	1.15	3	#8 w/GND	236 667 81	YES
		3P	380	60	YES	1.15	6-90 °	#10 w/GND	236 787 81	
		3P	415	50	YES	1.00	3	#8 w/GND	236 697 81	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#8 w/GND	236 617 81	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90 °	#10 w/GND	236 717 81	YES
		3P	575	60	YES	1.15	3	#8 w/GND	236 627 81	YES
	316 SS	3P	380	60	YES	1.15	3	#8 w/GND	236 667 40	
		3P	380	60	YES	1.15	6-90 °	#10 w/GND	236 787 40	
		3P	415	50	YES	1.00	3	#8 w/GND	236 697 40	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#8 w/GND	236 617 40	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90 °	#10 w/GND	236 717 40	
		3P	575	60	YES	1.15	3	#8 w/GND	236 627 40	
50 hp 30 kW	WATER WELL	3P	380	60	YES	1.15	3	#8 w/GND	276 668 60	YES
		3P	380	60	YES	1.15	6-90 °	#8 w/GND	276 788 60	
		3P	415	50	YES	1.00	3	#8 w/GND	276 698 60	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#8 w/GND	276 618 60	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90 °	#8 w/GND	276 718 60	YES
		3P	575	60	YES	1.15	3	#8 w/GND	276 628 60	YES
	316 SS	3P	380	60	YES	1.15	3	#8 w/GND	276 668 40	
		3P	380	60	YES	1.15	6-90 °	#8 w/GND	276 788 40	
		3P	415	50	YES	1.00	3	#8 w/GND	276 698 40	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#8 w/GND	276 618 40	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90 °	#8 w/GND	276 718 40	
		3P	575	60	YES	1.15	3	#8 w/GND	276 628 40	
60 hp 45 kW	WATER WELL	3P	380	60	YES	1.15	3	#8 w/GND	276 669 60	YES
		3P	380	60	YES	1.15	6-90 °	#8 w/GND	276 789 60	
		3P	415	50	YES	1.00	3	#8 w/GND	276 699 60	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#8 w/GND	276 619 60	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90 °	#8 w/GND	276 719 60	YES
		3P	575	60	YES	1.15	3	#8 w/GND	276 629 60	YES
	316 SS	3P	380	60	YES	1.15	3	#8 w/GND	276 669 40	
		3P	380	60	YES	1.15	6-90 °	#8 w/GND	276 789 40	
		3P	415	50	YES	1.00	3	#8 w/GND	276 699 40	
		3P	460/380-415	60/50	YES	1.15/1.00	3	#8 w/GND	276 619 40	YES
		3P	460/380-415	60/50	YES	1.15/1.00	6-90 °	#8 w/GND	276 719 40	
		3P	575	60	YES	1.15	3	#8 w/GND	276 629 40	

NOTES:

1. Models designated above as Sand Fighter™ are water well construction.
2. All 316 SS and Ni-Resist models are equipped with Sand Fighter sealing system.
3. All models listed above include factory-installed leads (13 ft).

6" Submersible Motors Standard Models

Standard 6" Motor Specifications:

HZ	PH	HP RANGE	KW RANGE	POLES	RPM	MAX. AMBIENT TEMP.	DUTY RATING
60	1	5 - 15	3.7 - 11	2	3450	86 °F/30 °C	Continuous at 0.5 ft/sec flow past motor
60	3	5 - 40	3.7 - 30	2	3450	86 °F/30 °C	Continuous at 0.5 ft/sec flow past motor
60	3	50 - 60	37 - 45	2	3450	122 °F/50 °C	Continuous at 0.5 ft/sec flow past motor
50	1	5 - 15	3.7 - 11	2	2875	86 °F/30 °C	Continuous at 0.5 ft/sec flow past motor
50	3	5 - 40	3.7 - 30	2	2875	86 °F/30 °C	Continuous at 0.5 ft/sec flow past motor
50	3	50 - 60	37 - 45	2	2875	122 °F/50 °C	Continuous at 0.5 ft/sec flow past motor

6" Construction Materials:

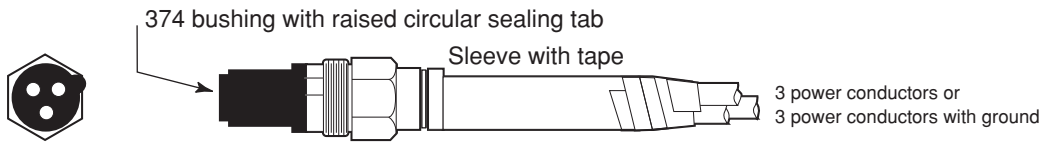
COMPONENT	CONSTRUCTION TYPE		
	STANDARD WATER WELL	SAND FIGHTER™	CORROSION RESISTANT (316 SS)
UL Insulation Class Rating	Class F	Per Standard Water Well	Per Standard Water Well
Motor Ambient Temperature Rating	86 °F/30 °C (5-40 hp) 122 °F/50 °C (50-60 hp)	Per Standard Water Well	Per Standard Water Well
Stator Resin Type	FE Standard (5-40 hp) FE Hi-Temp (50-60 hp)	Per Standard Water Well	Per Standard Water Well
Motor Fill Solution (Water Soluble/Non-Toxic)	FES91	Per Standard Water Well	Per Standard Water Well
Top End Bell & Thrust Housing	Epoxy Coated Gray Iron	Per Standard Water Well	316 SS
On Winding SubTroI™ heat sensor	No (5-40 hp) Yes (50-60 hp)	Yes	Yes
Stator Shell	300 SS Series	Per Standard Water Well	316 SS
Stator Ends	Carbon Steel	Per Standard Water Well	316 SS
Shaft Extension	300 SS Series (5-30 hp) 17-4 SS (40-60 hp)	Per Standard Water Well	17-4 SS
Bushing	Bronze	Per Standard Water Well	316 SS
Bushing Retainer	300 SS Series	Per Standard Water Well	316 SS
Shaft Mechanical Seal	Carbon Ceramic Seal (5-40 hp) Sand Fighter™ Seal System (50-60 hp)	Sand Fighter Seal System	Sand Fighter Seal System
Mechanical Seal Rubber Components	Nitrile (5-40 hp) Viton® (50-60 hp)	Per Standard Water Well	Per Standard Water Well
Diaphragm Material	Nitrile (5-40 hp) Viton® (50-60 hp)	Per Standard Water Well	Per Standard Water Well
Diaphragm Plate	300 SS Series	Per Standard Water Well	316 SS
Diaphragm Spring	300 SS Series	Per Standard Water Well	25-6 MO SS
Shaft Slinger	Nitrile (5-40 hp) Viton® (50-60 hp)	Per Standard Water Well	Nitrile
Lead Wire	XLPE	Per Standard Water Well	Per Standard Water Well
Lead Potting	Epoxy	Per Standard Water Well	Per Standard Water Well
Lead Jam Nut	Brass	Per Standard Water Well	316 SS
Thrust Bearing Rating (86 °F/30 °C)	3500 lbs (5-30 hp) 6000 lbs (40-60 hp)	Per Standard Water Well	Per Standard Water Well
Method Of Connecting System Ground To Motor	Ground Wire In Power Lead Connector	Per Standard Water Well	Per Standard Water Well

Specifications subject to change without notice. Contact Franklin Electric if current material types are required for bid specifications.

Viton® is a registered trademark of DuPont Dow Elastomers.

6" Submersible Motors

Leads



6" Lead Construction Material:

COMPONENT	MATERIAL
Wire	XLPE 125 °C
Sleeve	Brass or 316 SS
Potting	Epoxy
Jam Nut	Brass or 316 SS

Specifications subject to change without notice. Contact Franklin Electric if current material types are required for bid specifications.

Standard XLPE 125 °C Lead:

Excellent resistance to ozone, abrasion, heat, and oxidizing chemicals.

FITS FE MOTOR RATING (460 V OR 575 V 60 HZ)	JAM NUT MATERIAL	LEAD LENGTH		WIRE SIZE (AWG)	POWER WIRES	FE PART NUMBER	REPLACEMENT KIT NUMBER
		FT	M				
All 6" Ratings	Brass	13	4	#8	3 w/GND	152 671 901	305 517 901
	Brass	26	8	#8	3 w/GND	152 671 902	305 517 902
	316 SS	13	4	#8	3 w/GND	152 671 951	305 517 951
	316 SS	26	8	#8	3 w/GND	152 671 952	305 517 952
5-30 hp 3.7-22 kW	316 SS	50	15	#10	3 w/GND	152 672 955	305 518 955
	316 SS	75	23	#10	3 w/GND	152 672 957	305 518 957
	316 SS	100	30	#10	3 w/GND	152 672 960	305 518 960
	316 SS	125	38	#10	3 w/GND	152 672 962	305 518 962
	316 SS	150	45	#10	3 w/GND	152 672 965	305 518 965
5-40 hp 3.7-30 kW	316 SS	50	15	#8	3 w/GND	152 671 955	305 517 955
	316 SS	75	23	#8	3 w/GND	152 671 957	305 517 957
	316 SS	100	30	#8	3 w/GND	152 671 960	305 517 960
	316 SS	125	38	#8	3 w/GND	152 671 962	305 517 962
	316 SS	150	45	#8	3 w/GND	152 671 965	305 517 965

NOTES:

1. Refer to Franklin Application Installation Maintenance (AIM) Manual for accurate cable sizing.
2. Nitrile cable uses lead sleeve 1" longer than standard.
3. MOTOR WARRANTY IS VOID if Franklin-supplied leads are not used.
4. Replacement leads are available in 25 ft. increments up to 150 ft. Special-cut lengths may be available at an additional charge. Consult factory for price and availability.

Submersible Motor Control Boxes QD, Standard & Deluxe Control Boxes



Control Boxes

Applications:

QUICK DISCONNECT (QD) & CAPACITOR RUN CONTROL (CRC)

These control boxes are designed for use with Franklin 3-wire single-phase submersible motors through 1 hp.

STANDARD & DELUXE

These control boxes are designed for use with Franklin 3-wire single-phase submersible motors from 1 through 15 hp. Recommended for water systems that use pressure switches, level switches, or other pilot devices. Deluxe boxes (only) contain magnetic line contactors carefully matched to the motor rating, eliminating the need for external line contactors.

Basic Features - All Boxes:

- Suitable for outdoor mounting
- Capacitor Start / Capacitor Run design (except QD boxes)
- UL Listed for US and Canada (60 Hz models)

Basic Features - Standard & Deluxe Boxes:

- Heavy duty box-type terminals accept up to AWG #2 wire
- External access to overload resets
- Multiple-size knockouts
- User-friendly connection diagrams
- Easy access to grounding lugs

Single-Phase Control Box Specifications:

BOX TYPE	HZ	HP RANGE	KW RANGE	ENCLOSURE	TERMINAL BLOCK		MAG CONTACTOR	AGENCY APPROVALS
					TERMINALS	MAX WIRE		
Quick Disconnect (QD)	60	1/3 - 1	0.25 - 0.75	NEMA 3R, IP23	5	AWG 10	No	UL listed for US and Canada
Quick Disconnect (QD)	50	1/3 - 1	0.25 - 0.75	NEMA 3R, IP23	5	AWG 10	No	CSA Certified
Capacitor Run Control (CRC)	60	1/2 - 1	0.37 - 0.75	NEMA 3R, IP23	5	AWG 10	No	UL listed for US and Canada
Standard (S)	60	1 - 10	0.75 - 7.5	NEMA 3R, IP23	5	AWG 2	No	UL listed for US and Canada
Standard (S)	50	1.5 - 5	0.75 - 3.7	NEMA 3R, IP23	5	AWG 2	No	CSA Certified
Deluxe (D)	60	2 - 15	1.5 - 11	NEMA 3R, IP23	6	AWG 2	Yes	UL listed for US and Canada
Extra Large Deluxe (D-XL)	60	15	11	NEMA 3R, IP23	5	AWG 00	Yes	UL listed for US and Canada

Motors, Drives, Controls & Protection

Submersible Motor Control Boxes

QD, Standard & Deluxe Control Boxes

HP (KW)	DESCRIPTION				MODEL	STOCK STATUS
	PH	VOLTS	HZ	TYPE		
1/3 hp (0.25 kW)	1P	115	60	Q	280 102 4915	YES
	1P	220	50	Q	280 353 0115	
	1P	230	60	Q	280 103 4915	YES
1/2 hp (0.37 kW)	1P	115	60	Q	280 104 4915	YES
	1P	220	50	Q	280 355 0115	YES
	1P	230	60	Q	280 105 4915	YES
	1P	230	60	CRC	282 405 5015	YES
3/4 hp (0.55 kW)	1P	220	50	Q	280 357 0115	YES
	1P	230	60	Q	280 107 4915	YES
	1P	230	60	CRC	282 407 5015	YES
1 hp (0.75 kW)	1P	220	50	Q	280 358 0115	YES
	1P	230	60	Q	280 108 4915	YES
	1P	230	60	CRC	282 408 5015	YES
1.5 hp (1.1 kW)	1P	220	50	S	282 350 8110	YES
	1P	230	60	S	282 300 8110	YES
2 hp (1.5 kW)	1P	220	50	S	282 351 8110	YES
	1P	230	60	S	282 301 8110	YES
	1P	230	60	D	282 301 8310	YES
3 hp (2.2 kW)	1P	220	50	S	282 352 8110	YES
	1P	230	60	S	282 302 8110	YES
	1P	230	60	D	282 302 8310	YES
5 hp (3.7 kW)	1P	220	50	S	282 253 9010	YES
	1P	230	60	S	282 113 8110	YES
	1P	230	60	D	282 113 9310	YES
7.5 hp (5.5 kW)	1P	230	60	S	282 201 9210	YES
	1P	230	60	D	282 201 9310	YES
10 hp (7.5 kW)	1P	230	60	S	282 202 9230	YES
	1P	230	60	D	282 202 9330	YES
15 hp (11 kW)	1P	230	60	D	282 203 9330	YES
	1P	230	60	D-XL	282 203 9621	YES

NOTES:

Q = Quick Disconnect Control Box

CRC = Capacitor Run Control Box

S = Standard Control Box

D = Deluxe Control Box

D-XL = Extra Large Deluxe Control Box

Submersible Motor Protection Pumptec Family



Pumptec Single-Phase Protection Devices

Applications:

These protection devices are designed to protect Franklin Electric single-phase motors from the various conditions listed below.



QD Pumptec is designed to easily plug into any Franklin QD Relay Control Box.

	QD PUMPTEC	PUMPTEC IR	PUMPTEC-PLUS
Air or Gas Locked Pump (Cavitation)	■	■	■
Broken Shaft or Coupling	■	■	■
Clogged Well Screen	■	■	■
Drop in Water Level	■	■	■
Faulty Check Valve	■	■	■
High Voltage	■	■	■
Low Voltage	■	■	■
Low Yield Wells	■	■	■
Rapid Cycling	■	■	■
Water Logged Tank	■	■	■
Worn Pump Parts	■	■	■

QD Pumptec:

Exclusively designed for Franklin QD Relay Control Boxes, QD Pumptec is a solid state sensing device that monitors motor load and incoming power to automatically shut off a Franklin single-phase, 3-wire motor when related fault conditions are detected. QD Pumptec easily plugs into 3-wire Franklin QD Control Boxes with no additional wiring or tools required.

Pumptec IR:

Pumptec is a microcomputer-based device that monitors motor load and power line conditions to provide protection against dry well conditions, waterlogged tanks, and abnormal line voltage conditions. Pumptec interrupts power to the motor whenever the load drops quickly or below a preset level. Indicator lights provide complete system status.

Pumptec-Plus:

The Pumptec-Plus solid state pump protection system is designed for 1/2 to 5 hp single-phase submersible pump motors. Pumptec-Plus protects against a variety of fault conditions. Run and fault lights make diagnosis quick and easy. Push button Snap Shot™ calibration makes Pumptec-Plus simple to install and an effective troubleshooting tool.

Motors, Drives, Controls & Protection

Submersible Motor Protection

Pumptec Family

Single-Phase Electronic Protection Device Specifications:

PRODUCT	HP RANGE	KW RANGE	VOLTS	HZ	RESET TIME	AGENCY APPROVALS
Pumptec w/IR Control	1/3 - 1.5	0.25 - 1.1	115/230	60/50	Adjustable (2-120 Minutes)	UL/cUL Listed
Pumptec-Plus	1/2 - 5.0	0.37 - 3.7	230	60	Adjustable (1-240 Minutes or Manual)	UL/cUL Listed
Pumptec-Plus	1/2 - 5.0	0.37 - 3.7	220	50	Adjustable (1-240 Minutes or Manual)	UL/cUL Listed
QD Pumptec	1/3 - 1.0	0.25 - 0.75	230	60	Adjustable (2-240 Minutes)	UL/cUL Listed

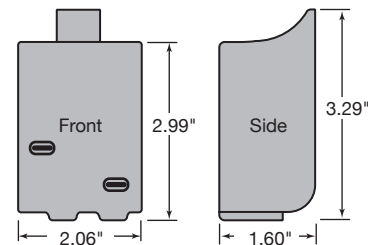
Models:

PRODUCT	DESCRIPTION				MODEL	STOCK STATUS
	PH	HP	VOLTS	HZ		
Pumptec w/IR Control	1P	1/3 - 1.5	115/230	60/50	580 002 0600	YES
Pumptec-Plus	1P	1/2 - 5.0	230	60	580 006 0100	YES
	1P	1/2 - 5.0	220	50	580 006 0500	YES
QD Pumptec	1P	1/3 - 1.0	230	60	580 007 0600	YES

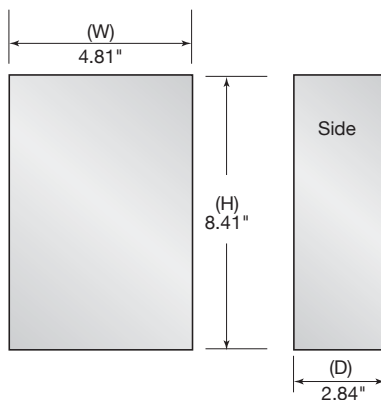
Single-Phase Protection Devices:

PRODUCT	SHIPPING WEIGHT		MOTOR CARTON SIZE (IN INCHES)
	LBS	KG	
Pumptec W/ IR Control	3	1.3	5.25 x 8.875 x 3.25
Pumptec-Plus	7	3.1	8.25 x 11.25 x 6.25
QD Pumptec	<1	<0.05	4.25 x 2.375 x 2.25

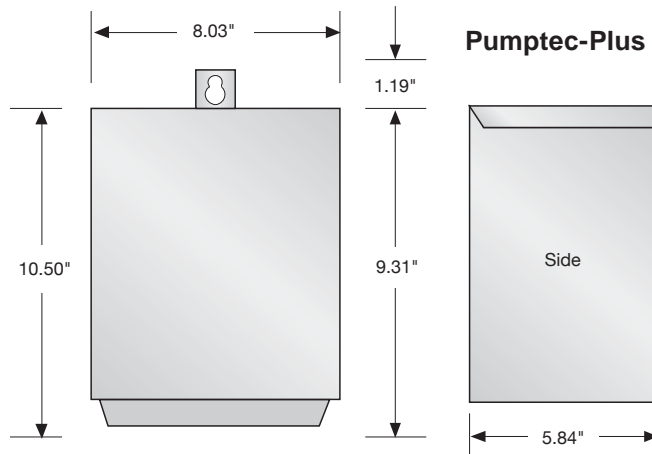
QD Pumptec



Pumptec IR



Pumptec-Plus



Submersible Motor Protection Three-Phase Control Panel

Three-Phase Panel

Applications:

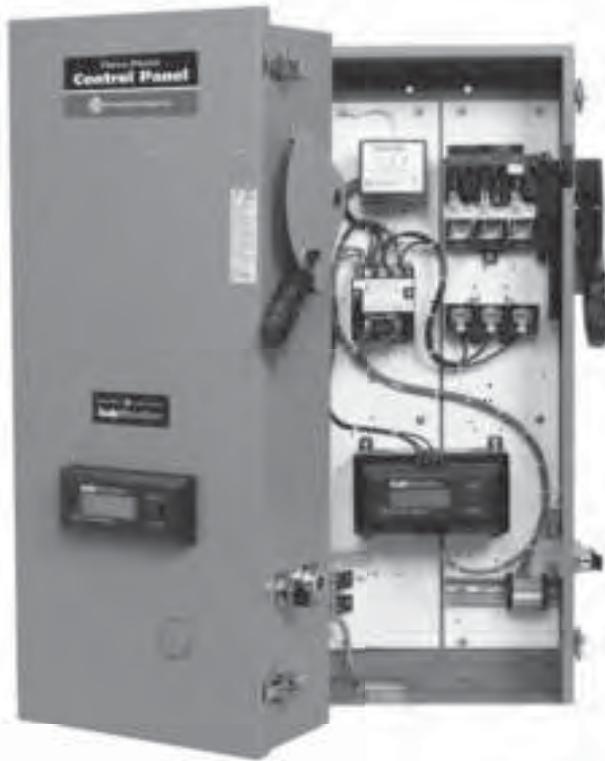
Franklin's heavy duty three-phase panels are optimized for water and irrigation applications. The spacious layout makes installation and maintenance simple and easy, so there's no need to spend time wrestling with wires, and adding components is easy. With a Franklin three-phase control panel, you can be sure that your system is set-up according to Franklin's recommendations.

Franklin Electric three-phase control panels are available from 3 to 200 hp, in ratings from 200 to 575 Volts.

Features:

- UL approved, heavy-duty NEMA 3R enclosure
- Class R fusible disconnect
- Service entrance rated
- Lightning arrestor
- Motor logic or Franklin SubMonitor protected
- NEMA contactor
- Door wind hinge
- Pilot device and alarm terminal block
- H-O-A switch
- Manual push-to-start switch
- Easy hook-up

Note: For three-phase panel accessories, see the Franklin Electric Motors, Drives and Controls Catalog.



Motors, Drives, Controls & Protection

Submersible Motor Protection Three-Phase Control Panel

HP	DESCRIPTION	VOLTS	HZ	AMPS	MODEL	WT
3	MOTOR LOGIC	200	60	6-18	281 101 2203	56
		230	60	6-18	281 101 3303	56
		460	60	3-9	281 101 4402	56
		575	60	3-9	281 101 5502	56
	SUB-MONITOR	200	60	ALL	281 101 2200	59
		230	60	ALL	281 101 3300	59
		460	60	ALL	281 101 4400	59
		575	60	ALL	281 101 5500	59
5	MOTOR LOGIC	200	60	9-27	281 101 2204	56
		230	60	9-27	281 104 3304	56
		460	60	3-9	281 101 4402	56
		575	60	3-9	281 101 5502	56
	SUB-MONITOR	200	60	ALL	281 101 2200	59
		230	60	ALL	281 101 3300	59
		460	60	ALL	281 101 4400	59
		575	60	ALL	281 101 5500	59
7.5	MOTOR LOGIC	200	60	15-45	281 104 2206	60
		230	60	15-45	281 104 3306	60
		460	60	6-18	281 101 4403	56
		575	60	6-18	281 101 5503	56
	SUB-MONITOR	200	60	ALL	281 104 2200	63
		230	60	ALL	281 104 3300	63
		460	60	ALL	281 101 4400	59
		575	60	ALL	281 101 5500	59
10	MOTOR LOGIC	200	60	15-45	281 104 2206	60
		230	60	15-45	281 104 3306	60
		460	60	9-27	281 101 4404	56
		575	60	6-18	281 101 5503	56
	SUB-MONITOR	200	60	ALL	281 104 2200	63
		230	60	ALL	281 104 3300	63
		460	60	ALL	281 101 4400	59
		575	60	ALL	281 101 5500	59
15	MOTOR LOGIC	200	60	45-135	281 204 2208	147
		230	60	30-90	281 204 3308	145
		460	60	15-45	281 104 4406	60
		575	60	15-45	281 104 5506	60
	SUB-MONITOR	200	60	ALL	281 204 2200	150
		230	60	ALL	281 204 3300	148
		460	60	ALL	281 103 4400	63
		575	60	ALL	281 104 5500	59
20	MOTOR LOGIC	200	60	30-90	281 205 2208	145
		230	60	30-90	281 205 3308	145
		460	60	15-45	281 104 4406	60
		575	60	15-45	281 104 5506	60
	SUB-MONITOR	200	60	ALL	281 205 2200	148
		230	60	ALL	281 205 3300	148
		460	60	ALL	281 103 4400	63
		575	60	ALL	281 104 5500	59

HP	DESCRIPTION	VOLTS	HZ	AMPS	MODEL	WT
25	MOTOR LOGIC	200	60	30-90	281 206 2208	145
		230	60	30-90	281 206 3308	145
		460	60	15-45	281 104 4406	60
		575	60	15-45	281 104 5506	60
	SUB-MONITOR	200	60	ALL	281 206 2200	148
		230	60	ALL	281 206 3300	148
		460	60	ALL	281 104 4400	63
		575	60	ALL	281 104 5500	63
30	MOTOR LOGIC	200	60	45-135	281 207 2209	147
		230	60	45-135	281 207 3309	147
		460	60	30-90	281 104 4407	145
		575	60	30-90	281 204 5507	145
	SUB-MONITOR	200	60	ALL	281 207 2200	151
		230	60	ALL	281 207 3300	151
		460	60	ALL	281 106 4400	148
		575	60	ALL	281 204 5500	148
40	MOTOR LOGIC	460	60	30-90	281 205 4408	145
		575	60	30-90	281 204 5507	145
	SUB-MONITOR	460	60	ALL	281 205 4400	148
		575	60	ALL	281 204 5500	148
50	MOTOR LOGIC	460	60	30-90	281 206 4408	145
		575	60	30-90	281 205 5508	145
	SUB-MONITOR	460	60	ALL	281 206 4400	148
		575	60	ALL	281 205 5500	148
60	MOTOR LOGIC	460	60	45-135	281 207 4409	147
		575	60	45-135	281 307 5510	147
	SUB-MONITOR	460	60	ALL	281 207 4400	150
		575	60	ALL	281 307 5500	150
75	MOTOR LOGIC	460	60	45-135	281 207 4409	147
		575	60	45-135	281 307 5510	147
	SUB-MONITOR	460	60	ALL	281 207 4400	150
		575	60	ALL	281 307 5500	150
100	MOTOR LOGIC	460	60	90-270	281 308 4411	390
		575	60	45-135	281 307 5510	147
	SUB-MONITOR	460	60	ALL	281 308 4400	393
		575	60	ALL	281 307 5500	150
125	MOTOR LOGIC	460	60	90-270	281 309 4411	390
		575	60	90-270	281 309 5511	390
	SUB-MONITOR	460	60	ALL	281 309 4400	393
		575	60	ALL	281 309 5500	393
150	MOTOR LOGIC	460	60	90-270	281 310 4412	390
		575	60	90-270	281 309 5511	390
	SUB-MONITOR	460	60	ALL	281 310 4400	393
		575	60	ALL	281 309 5500	393
175	MOTOR LOGIC	460	60	90-270	2813104412	390
		575	60	90-270	2813105512	390
	SUB-MONITOR	460	60	ALL	2813104400	393
		575	60	ALL	2813105500	393
200	MOTOR LOGIC	460	60	18-540	2813114413	660
		575	60	90-270	2813105512	390
	SUB-MONITOR	460	60	ALL	2813114400	663
		575	60	ALL	2813105500	393

Submersible Motor Protection SubMonitor - Three-Phase Motor Protection



SubMonitor

Applications:

SubMonitor is designed to protect three-phase pumps by monitoring current, voltage and motor temperature* using three integrated current transformers. A face mounted digital display provides real-time current and voltage readings for all three legs and allows the user to set up the SubMonitor quickly and easily.

Protects Against:

- Under/Overload
- Under/Overtoltage
- Current Unbalance
- Overheated Motor (Subtrol-equipped)
- False Start (Chattering)
- Phase Reversal

Features:

- Quick, menu-driven set-up
- Digital display shows voltage and current on all three legs at once
- Fault messages in easily understandable text
- Overheat
- Rated for 190 to 600 volts
- No need for additional turns around the CT or to add external CTs
- Password protection option
- DIN rail mounting option
- Stored fault, setting changes, and pump run-time information easily accessed through display head
- Detachable NEMA 3R display unit easily mounted on panel door
- Turn-and-push adjustment knob
- Base unit can operate independent of detachable head
- UL and cUL listed

Three-Phase Electronic Protection Device Specifications:

Input Voltage	190 – 600 VAC	Signal Circuit Rating	1 Amp AC, up to 250 V
Frequency	60/50 Hz	Wiring Terminals	
Motor Service Factor Amps	5 to 350 Amps	Wire Gauge	#12 to #18 AWG
Maximum Conductor Size Through Sensors		Tighten to	4.5 in-lbs
Max Diameter.....	0.920 in. (23 mm)	Weight (SubMonitor)	3.3 lbs/1.5 kg
Trip Response		Carton Size (Std. Unit)	7.75 in x 11.5 in x 6.75 in (19.7 cm x 29.2 cm x 17.1 cm)
Motor Under/Overload, Under/Overtoltage, Overheat, Unbalance	3 seconds	Shipping Weight (Std. Unit)	3.5 lbs/1.5 kg
Control Circuit Rating	1.5 Amp AC, up to 600 V	Agency Approval	UL and cUL listed

* For motors equipped with a Subtrol heat sensor

Motors, Drives, Controls & Protection

Submersible Motor Protection

Three-Phase Control Panel - Accessories

Models:

PRODUCT	DESCRIPTION				MODEL	STOCK STATUS
	PH	MAX AMPS RANGE	VOLTS	HZ		
SubMonitor Standard	3	5 - 350	190 - 600	60/50	586 000 5000	YES
SubMonitor Premium*	3	5 - 350	190 - 600	60/50	586 000 5100	YES

Dimensions and Weights:

SHIPPING WEIGHT		MOTOR CARTON SIZE (IN INCHES)
LBS	KG	
3.3	1.5	7.75 x 11.5 x 6.75

* Includes lightning arrestor and 3-year warranty on SubMonitor and Subtrol-equipped motor

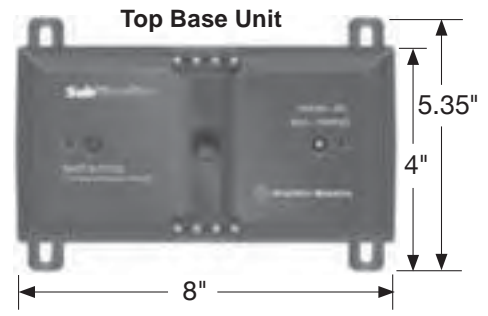
Front Base Unit



Detachable Display Unit

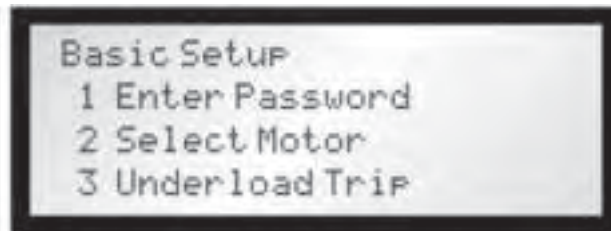
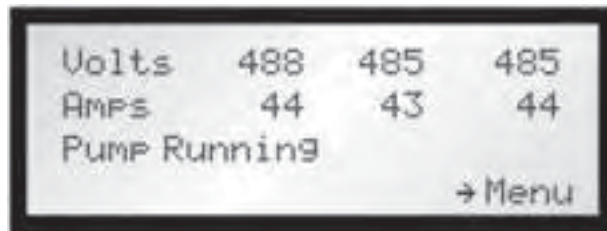


Top Base Unit



Display:

- Real-time display of voltage and current for each leg.
- Easy menu-driven setup and adjustment of monitoring parameters.



SubMonitor Accessory:

D3 Data Download Tool

D3 is a service tool that provides the capability to download data from SubMonitor and transfer that data to a PC.

Includes:

- D3 unit
- Transfer software
- USB cable



585 001 1100

Constant Pressure Drives SubDrive/MonoDrive



Applications:

Franklin Electric's constant pressure controllers use state-of-the-art technology to provide constant water pressure through variable speed control of submersible water well pumps.

Features - All Controllers:

- Constant water pressure with a wide range of settings (25 to 80 psi)
- NEMA 4 (Outdoor) and NEMA 1 (Indoor) Enclosures
- Easy installation
- Soft start feature prevents water hammer and increases motor life
- Works with small pressure tanks or existing larger tanks
- Smart Reset[®] technology allows well recovery before restarting the pump
- Single-phase input power with three-phase motor performance (SubDrive models)
- Excellent radio frequency interference shielding
- UL and cUL listed
- Built-in Diagnostics and Protection
 - Surge protection
 - Underload
 - Undervoltage
 - Locked pump
 - Open circuit
 - Short circuit
 - Overheated controller

Motors, Drives, Controls & Protection

Constant Pressure Drives

SubDrive/MonoDrive

Features - MonoDrive & MonoDriveXT:

- Selectable hp rating: MonoDrive (½, ¾, and 1 hp), MonoDriveXT (1.5 and 2 hp)
- Easy installation – remove the 3-wire control box and install the MonoDrive
- Can retrofit existing systems – no need to pull the pump
- NEMA 4 & NEMA 1 enclosure
- Single-phase, 3-wire

Features - SubDrive75, SubDrive100, SubDrive150 & SubDrive300:

- Works with a standard three-phase Franklin Electric submersible motor
- NEMA 4 & NEMA 1 enclosure
- Three-phase performance with single-phase input
 - High starting torque
 - More efficient
 - Smooth running

Constant Pressure Controls Specifications:

		MonoDrive	MonoDriveXT	SubDrive75	SubDrive100	SubDrive150	SubDrive300
Model No. (Enclosure*)	(N1)	587 020 3110	587 020 4110	587 020 3380	587 020 4100	587 020 4150	N/A
	(N4)	587 020 3114	587 020 4114	587 020 3384	587 020 4104	587 020 4154	587 020 6300

Input (From Power Source)

Voltage	190-260 V 1-Phase	190-260 V 1-Phase	190-260 V 1-Phase	190-260 V 1-Phase	190-260 V 1-Phase	190-260 V 1-Phase
Frequency	60/50 Hz	60/50 Hz	60/50 Hz	60/50 Hz	60/50 Hz	60/50 Hz
Max Amps (RMS)	5.7 A (½ hp), 8.7 A (¾ hp), 11 A (1 hp)	13 A (1.5 hp), 16 A (2 hp)	11 A	19 A	23 A	36 A
Power Factor	1 (Constant)	1 (Constant)	1 (Constant)	1 (Constant)	1 (Constant)	1 (Constant)

Output (To Motor)

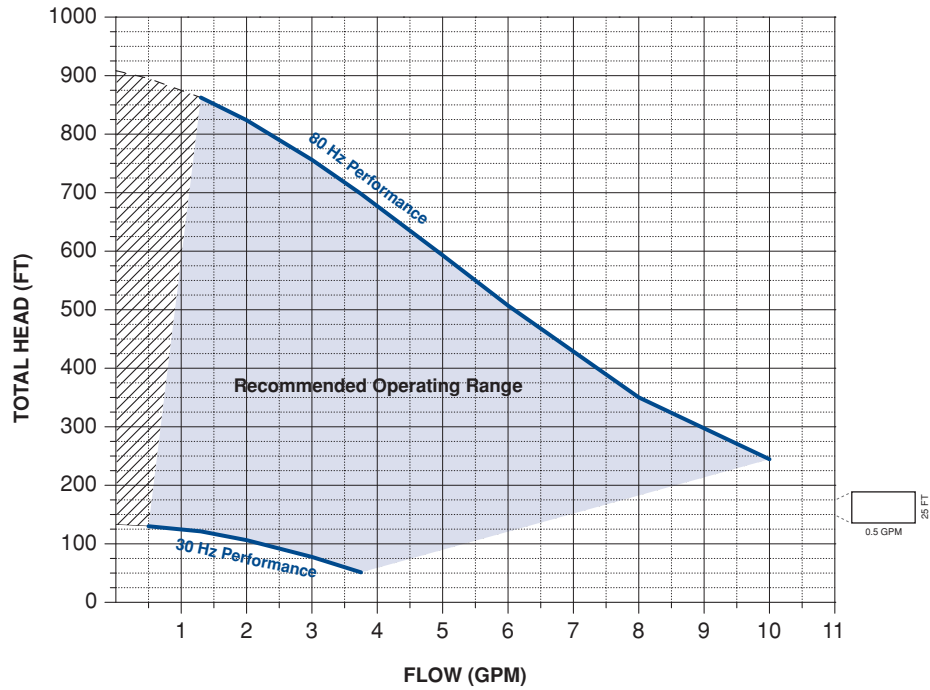
Voltage	Variable/1-Phase	Variable/1-Phase	Variable/3-Phase	Variable/3-Phase	Variable/3-Phase	Variable/3-Phase
Frequency	Variable (30-60 Hz)	Variable (30-60 Hz)	Variable (30-80 Hz)	Variable (30-80 Hz)	Variable (30-80 Hz)	Variable (30-80 Hz)
Max Amps (RMS)	4.0 A (½ hp), 6.6 A (¾ hp), 9.0 A (1 hp)	10 A (1.5 hp), 12 A (2 hp)	5.9 A	8.1 A	10.9 A	17.8 A

For Use With:

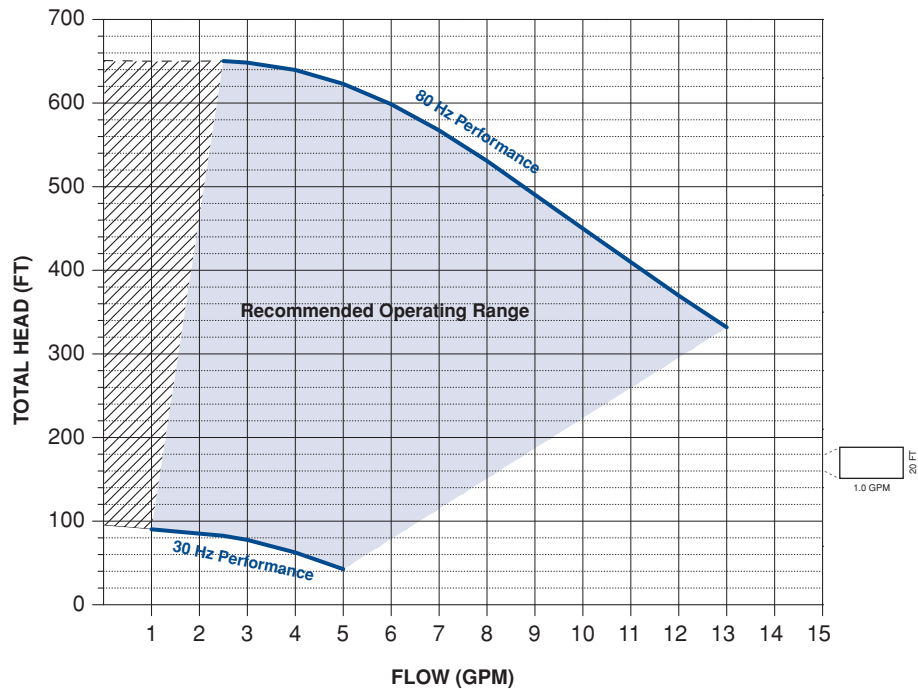
Pump Rating	½, ¾ or 1 hp (Selectable)	1.5 or 2 hp (Selectable)	¾, 1 or 1.5 hp (Selectable)	1, 1.5 or 2 hp (Selectable)	1.5, 2 or 3 hp (Selectable)	3 or 5 hp (Selectable)
Motor Rating	½, ¾ or 1 hp, 230 VAC (1-Phase)	1.5 or 2 hp, 230 VAC (1-Phase)	1.5 hp, 230 VAC (3-Phase)	2 hp, 230 VAC (3-Phase)	3 hp, 230 VAC (3-Phase)	5 hp, 230 VAC (3-Phase)
Pressure Sensor (Included)	External	External	External	External	External	External
Controller Weight	(N1)	15.00 lbs (6.80 kg)	17.50 lbs (7.94 kg)	15.00 lbs (6.80 kg)	17.50 lbs (7.94 kg)	17.50 lbs (7.94 kg)
	(N4)	24.14 lbs (10.95 kg)	28.32 lbs (12.84 kg)	24.14 lbs (10.95 kg)	28.32 lbs (12.84 kg)	28.32 lbs (12.84 kg)
Carton Size (H x W x D)	(N1)	16½ x 12¾ x 9"	16½ x 12¾ x 9"	16½ x 12¾ x 9"	16½ x 12¾ x 9"	16½ x 12¾ x 9"
	(N4)	17½ x 16¾ x 11¾"	17½ x 16¾ x 11¾"	17½ x 16¾ x 11¾"	17½ x 16¾ x 11¾"	17½ x 16¾ x 11¾"
Shipping Weight	(N1)	19.23 lbs (8.72 kg)	21.28 lbs (9.65 kg)	19.23 lbs (8.72 kg)	21.28 lbs (9.65 kg)	21.28 lbs (9.65 kg)
	(N4)	30.91 lbs (14.02 kg)	35.09 lbs (15.92 kg)	30.91 lbs (14.02 kg)	35.09 lbs (15.92 kg)	35.09 lbs (15.92 kg)

*N1 = NEMA 1 (Indoors), N4 = NEMA 4 (Outdoors)

5 gpm - 3/4 hp Pump End, 1.5 hp Motor



7 gpm - 3/4 hp Pump End, 1.5 hp Motor

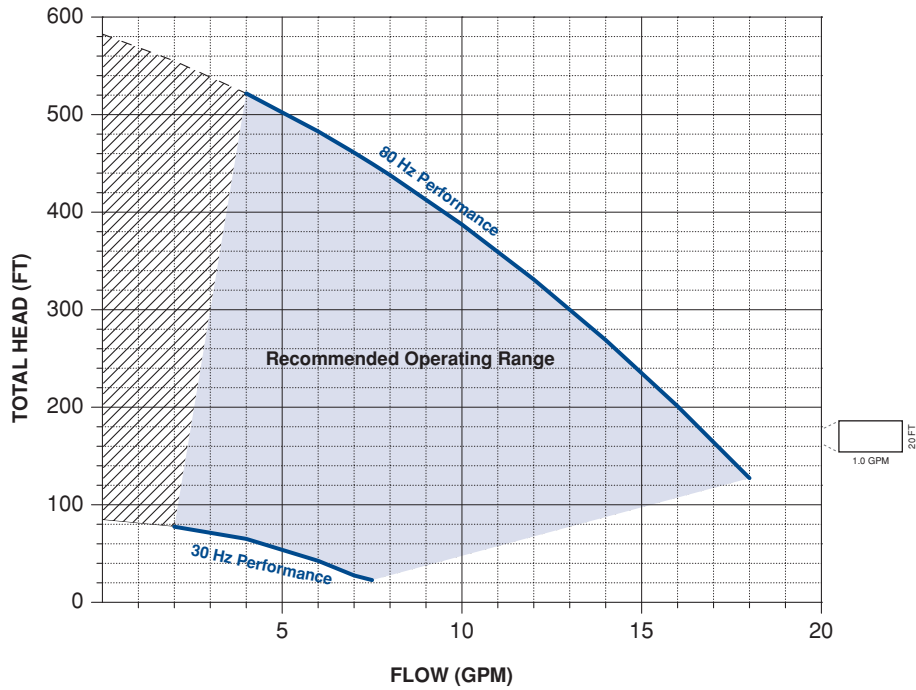


Note: Actual maximum performance of the SubDrive QuickPAK system is power limited by the SubDrive unit. This limit is based on the maximum allowable AMP load of the submersible motor. The result is in some installations an 80Hz speed may not be attained.

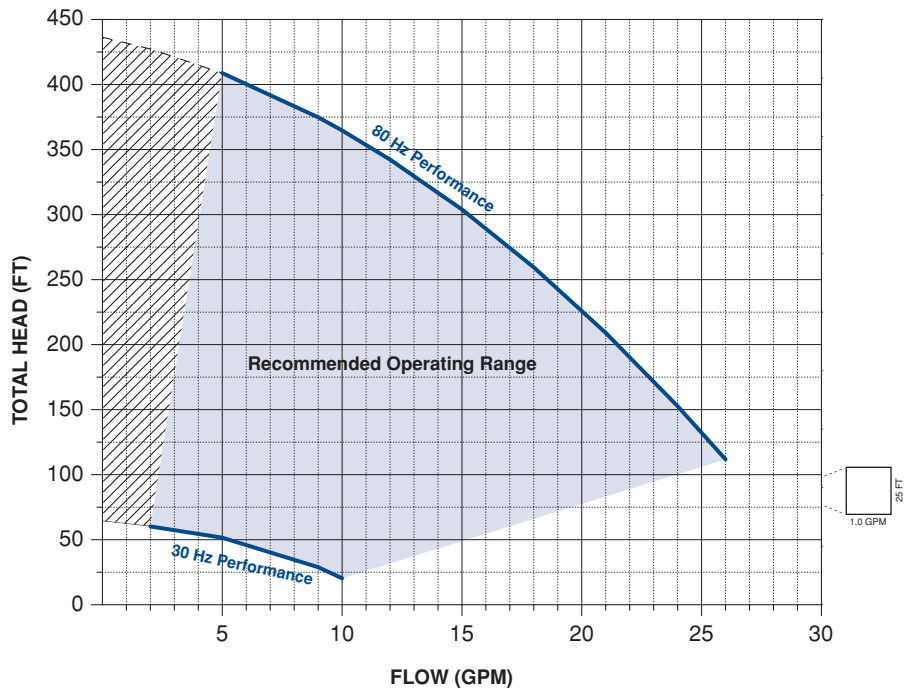
Constant Pressure Drives

SubDrive75 Performance

10 gpm - 3/4 hp Pump End, 1.5 hp Motor



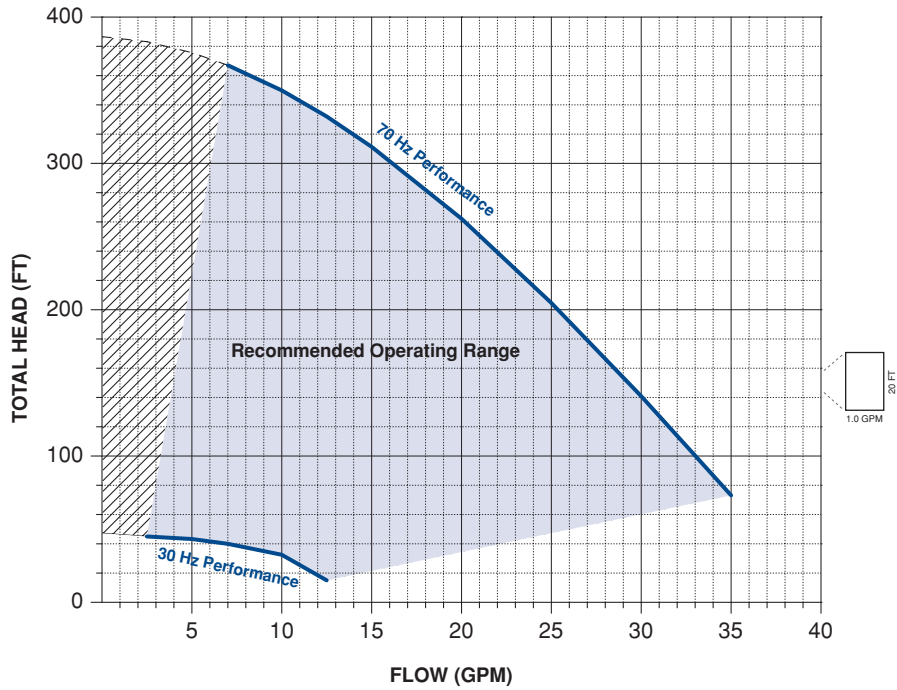
15 gpm - 3/4 hp Pump End, 1.5 hp Motor



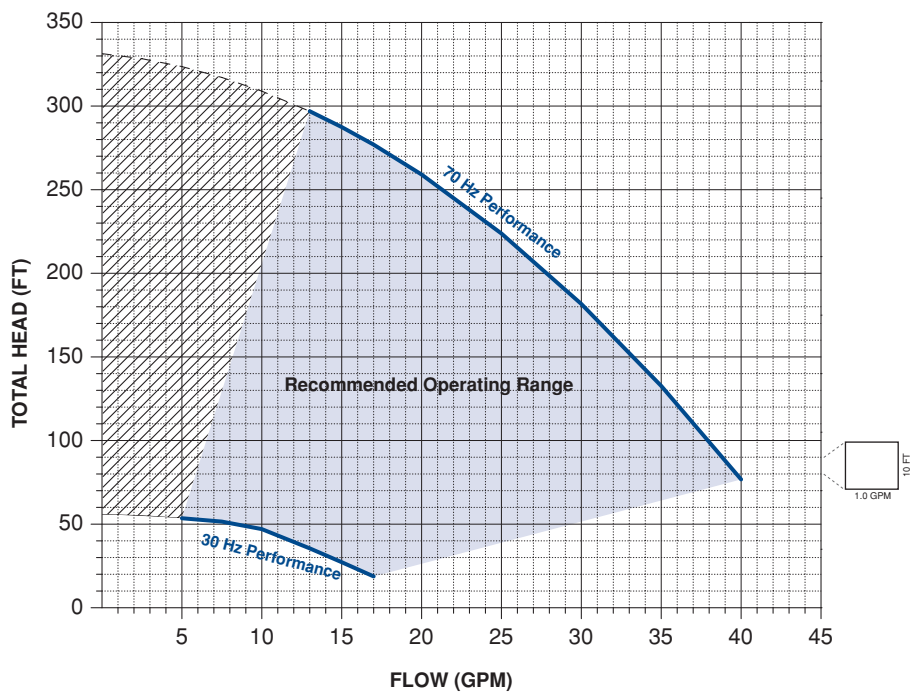
Note: Actual maximum performance of the SubDrive QuickPAK system is power limited by the SubDrive unit. This limit is based on the maximum allowable AMP load of the submersible motor. The result is in some installations an 80Hz speed may not be attained.

Constant Pressure Drives SubDrive75 Performance

20 gpm - 1.0 hp Pump End, 1.5 hp Motor



7 gpm - 3/4 hp Pump End, 1.5 hp Motor

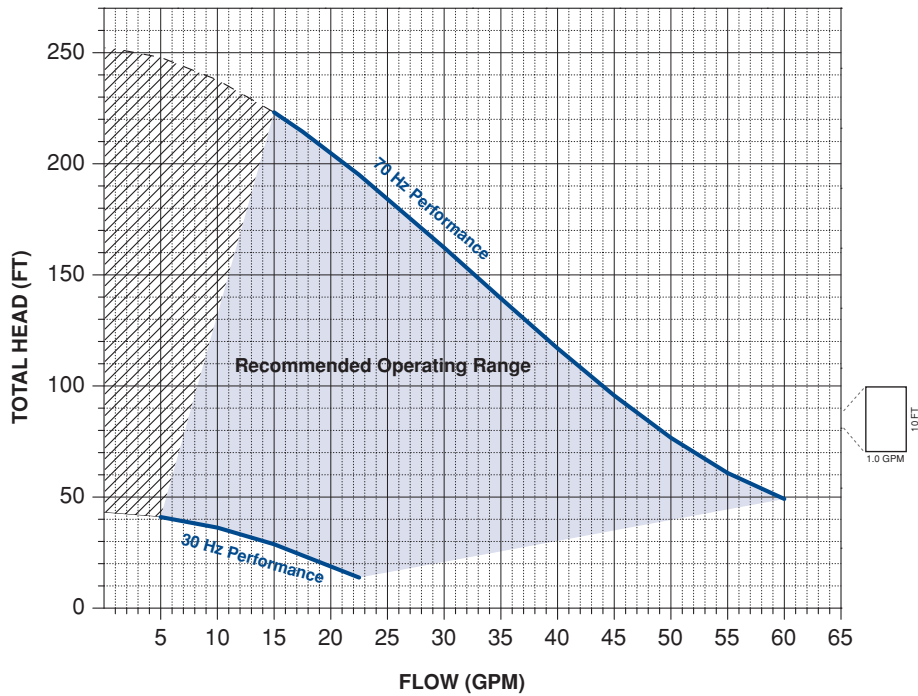


Note: Actual maximum performance of the SubDrive QuickPAK system is power limited by the SubDrive unit. This limit is based on the maximum allowable AMP load of the submersible motor. The result is in some installations an 80Hz speed may not be attained.

Constant Pressure Drives

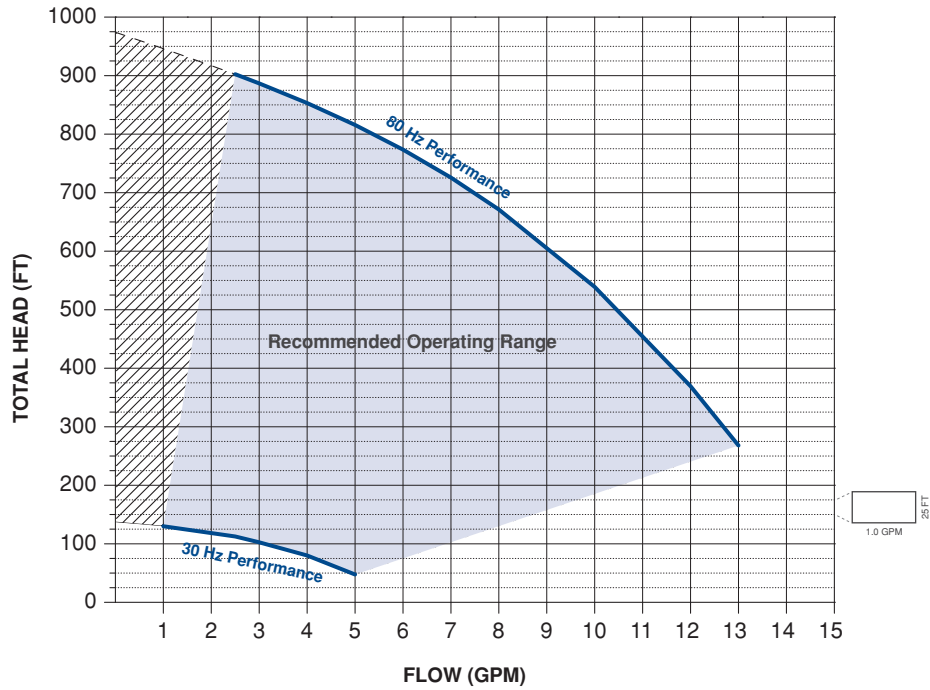
SubDrive75 Performance

35 gpm - 1.0 hp Pump End, 1.5 hp Motor

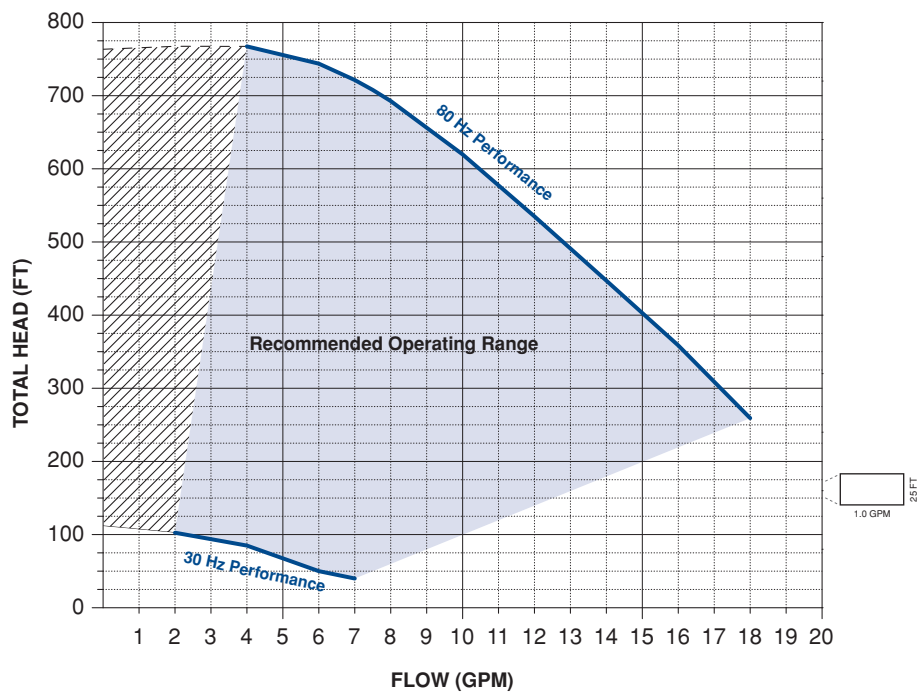


Note: Actual maximum performance of the SubDrive QuickPAK system is power limited by the SubDrive unit. This limit is based on the maximum allowable AMP load of the submersible motor. The result is in some installations an 80Hz speed may not be attained.

7 gpm - 1.0 hp Pump End, 2.0 hp Motor



10 gpm - 1.0 hp Pump End, 2.0 hp Motor

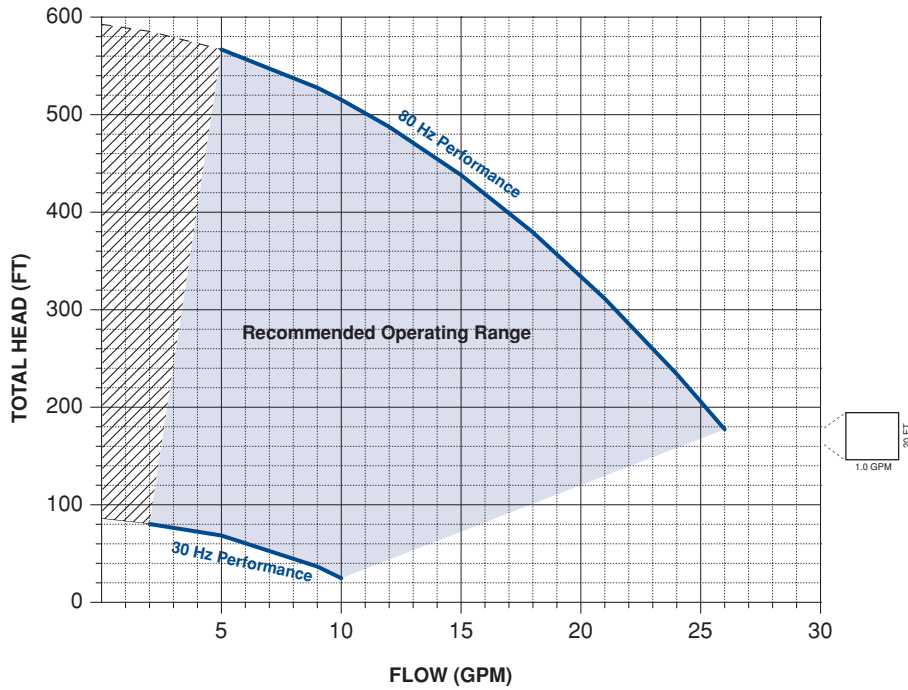


Note: Actual maximum performance of the SubDrive QuickPAK system is power limited by the SubDrive unit. This limit is based on the maximum allowable AMP load of the submersible motor. The result is in some installations an 80Hz speed may not be attained.

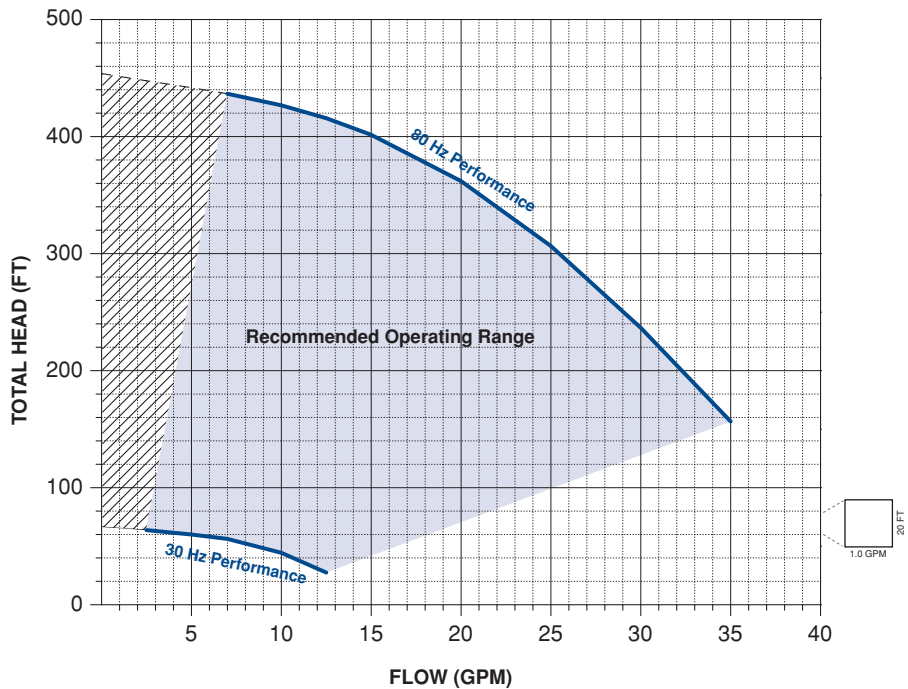
Constant Pressure Drives

SubDrive 100 Performance

15 gpm - 1.0 hp Pump End, 2.0 hp Motor



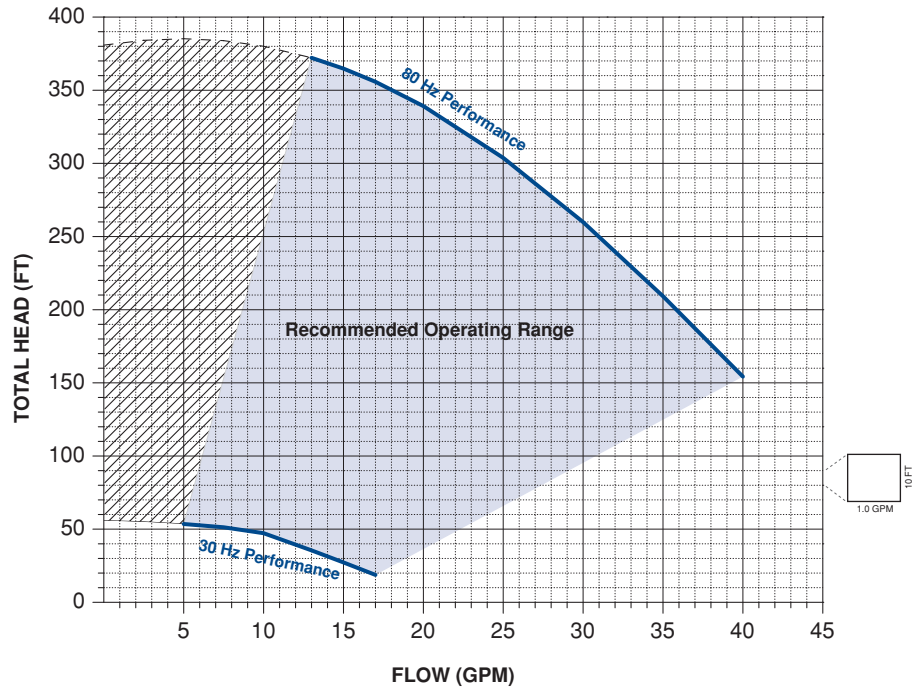
20 gpm - 1.0 hp Pump End, 2.0 hp Motor



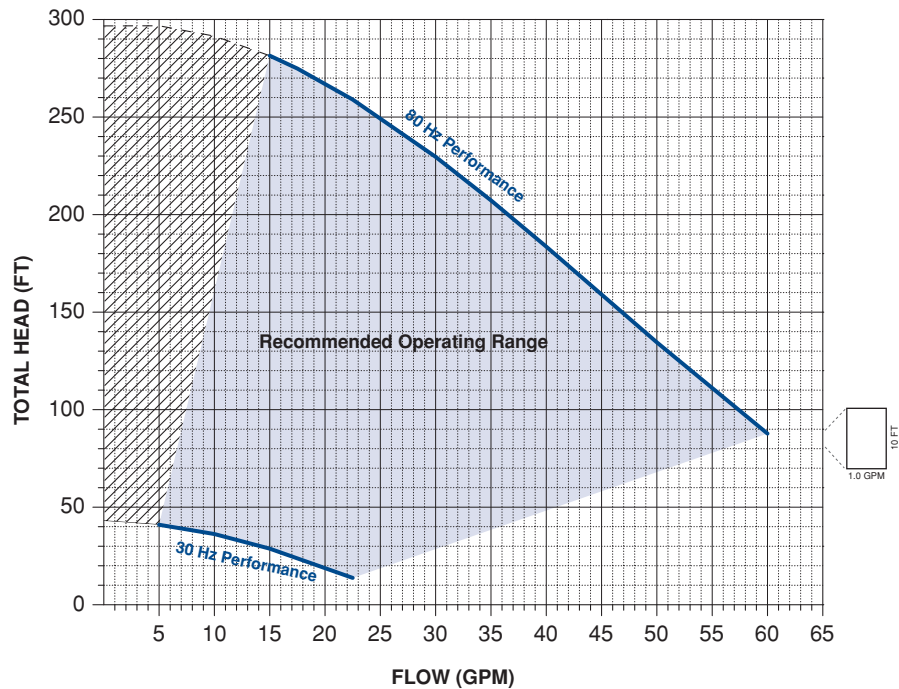
Note: Actual maximum performance of the SubDrive QuickPAK system is power limited by the SubDrive unit. This limit is based on the maximum allowable AMP load of the submersible motor. The result is in some installations an 80Hz speed may not be attained.

Constant Pressure Drives SubDrive 100 Performance

25 gpm - 1.0 hp Pump End, 2.0 hp Motor



35 gpm - 1.0 hp Pump End, 2.0 hp Motor

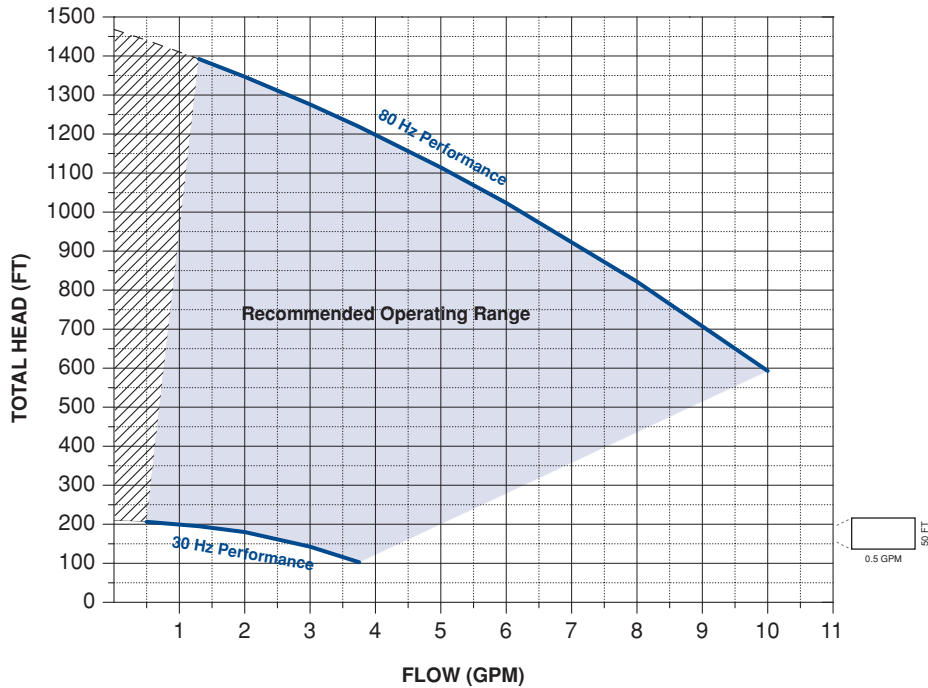


Note: Actual maximum performance of the SubDrive QuickPAK system is power limited by the SubDrive unit. This limit is based on the maximum allowable AMP load of the submersible motor. The result is in some installations an 80Hz speed may not be attained.

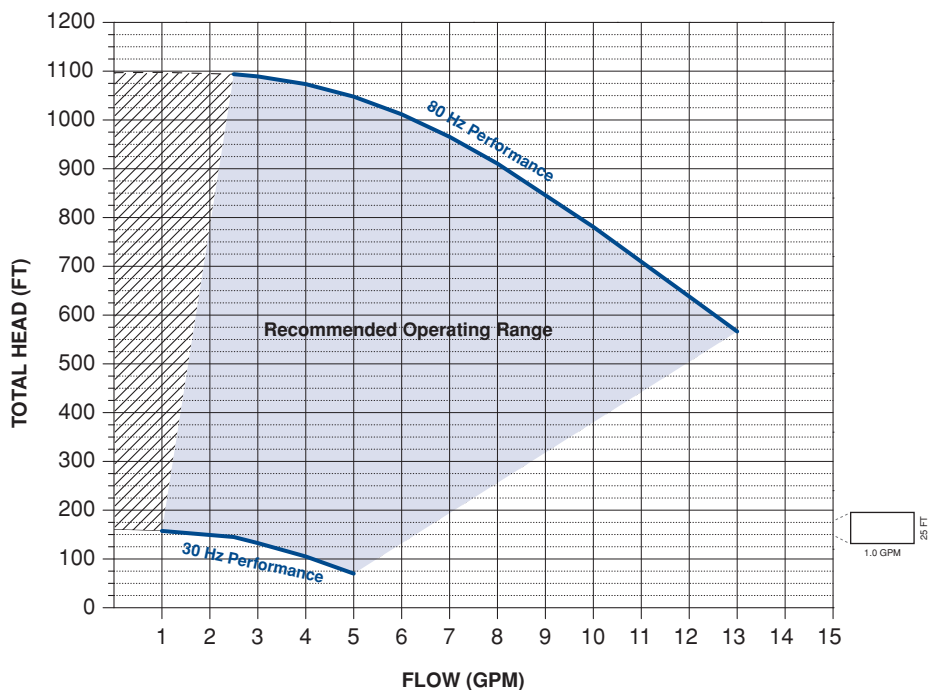
Constant Pressure Drives

SubDrive 150 Performance

5 gpm - 1.5 hp Pump End, 3.0 hp Motor



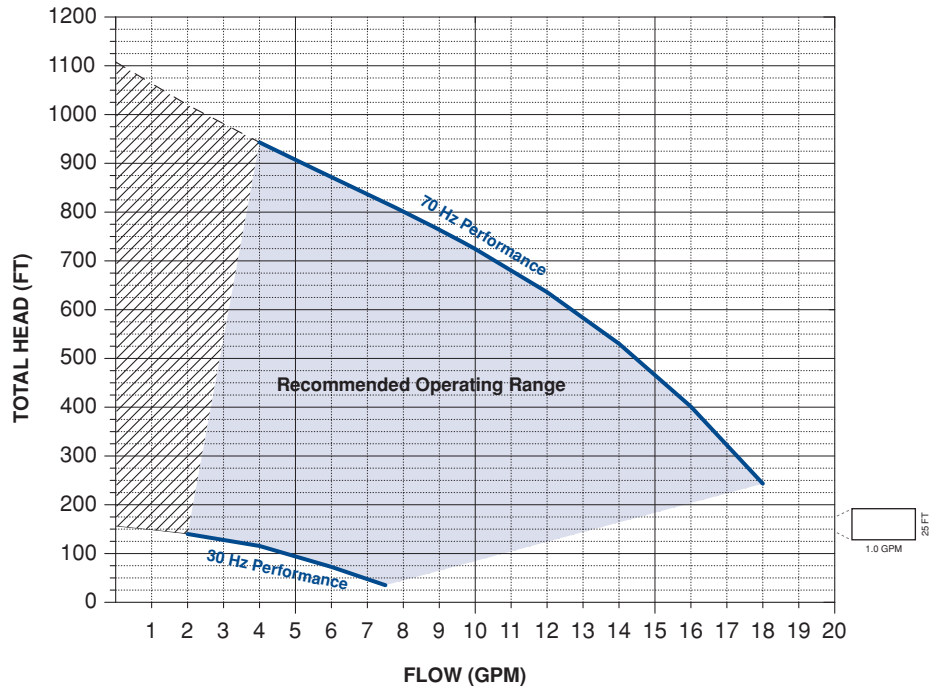
7 gpm - 1.5 hp Pump End, 3.0 hp Motor



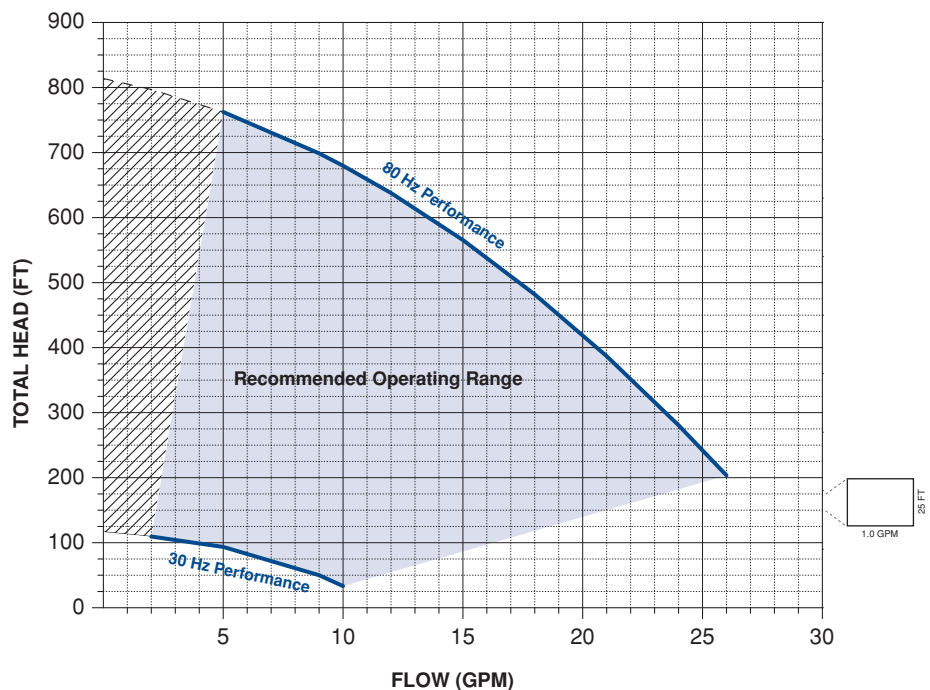
Note: Actual maximum performance of the SubDrive QuickPAK system is power limited by the SubDrive unit. This limit is based on the maximum allowable AMP load of the submersible motor. The result is in some installations an 80Hz speed may not be attained.

Constant Pressure Drives SubDrive 150 Performance

10 gpm - 1.5 hp Pump End, 3.0 hp Motor



15 gpm - 1.5 hp Pump End, 3.0 hp Motor

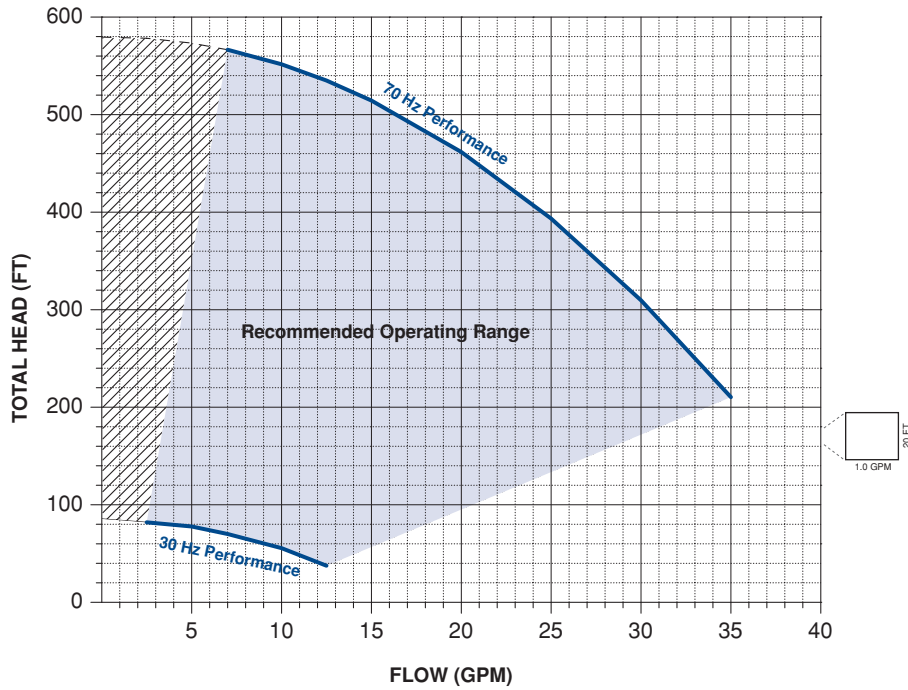


Note: Actual maximum performance of the SubDrive QuickPAK system is power limited by the SubDrive unit. This limit is based on the maximum allowable AMP load of the submersible motor. The result is in some installations an 80Hz speed may not be attained.

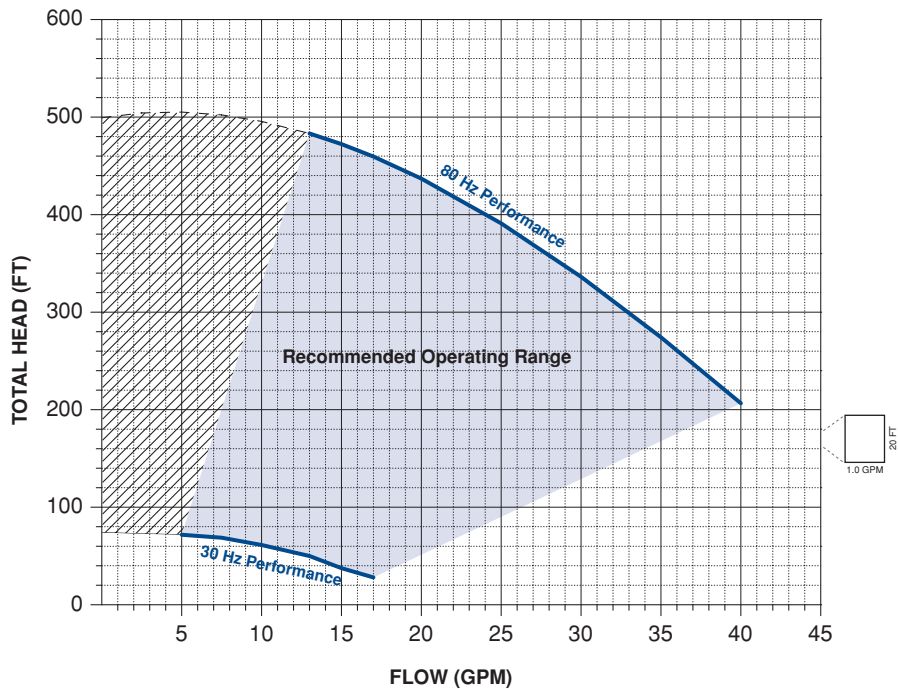
Constant Pressure Drives

SubDrive 150 Performance

20 gpm - 1.5 hp Pump End, 3.0 hp Motor



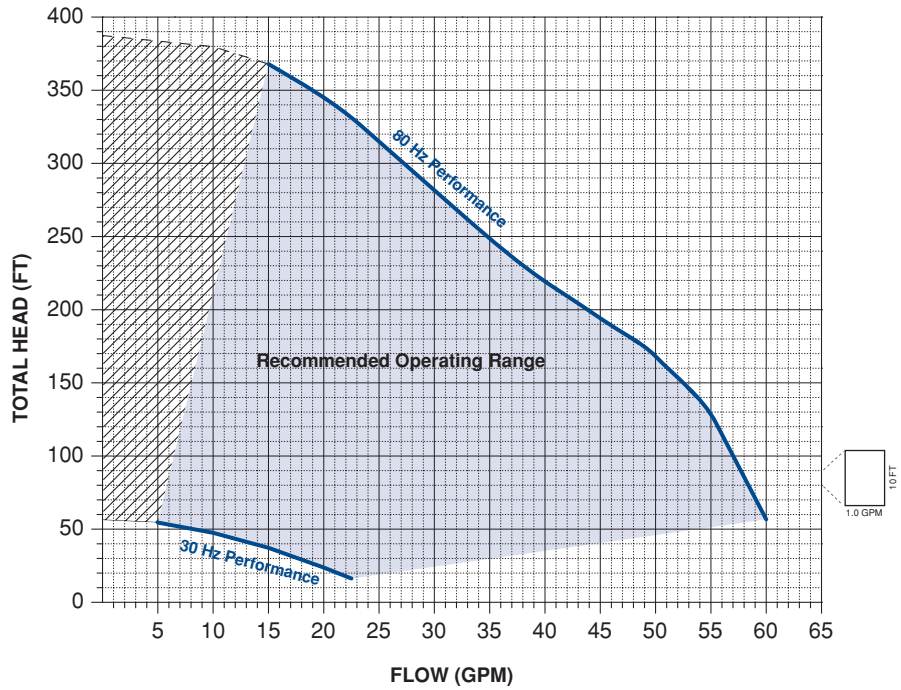
25 gpm - 1.5 hp Pump End, 3.0 hp Motor



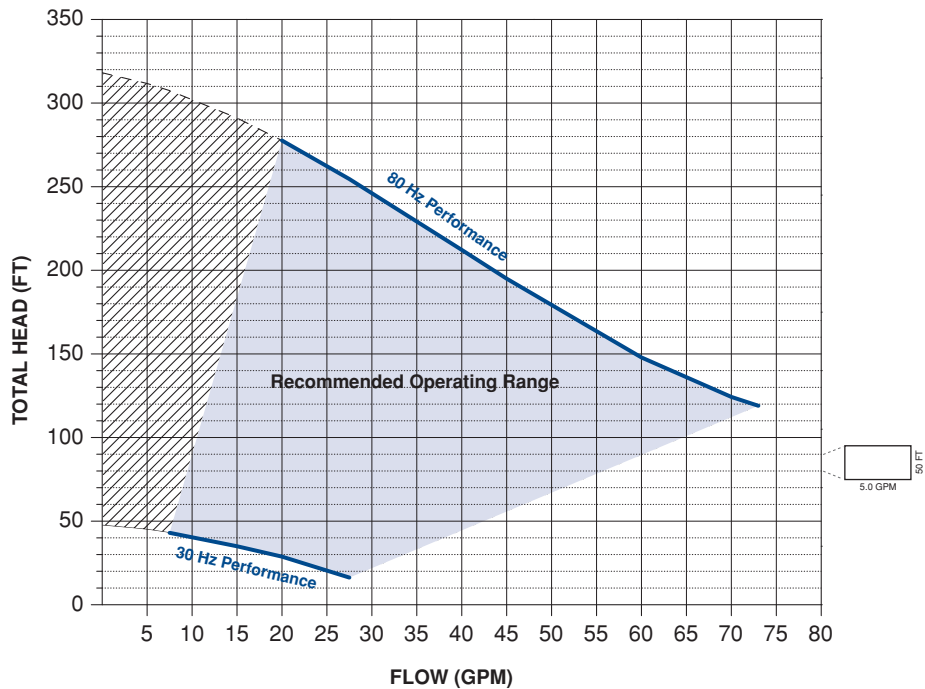
Note: Actual maximum performance of the SubDrive QuickPAK system is power limited by the SubDrive unit. This limit is based on the maximum allowable AMP load of the submersible motor. The result is in some installations an 80Hz speed may not be attained.

Constant Pressure Drives SubDrive 150 Performance

35 gpm - 1.5 hp Pump End, 3.0 hp Motor



45 gpm - 1.5 hp Pump End, 3.0 hp Motor

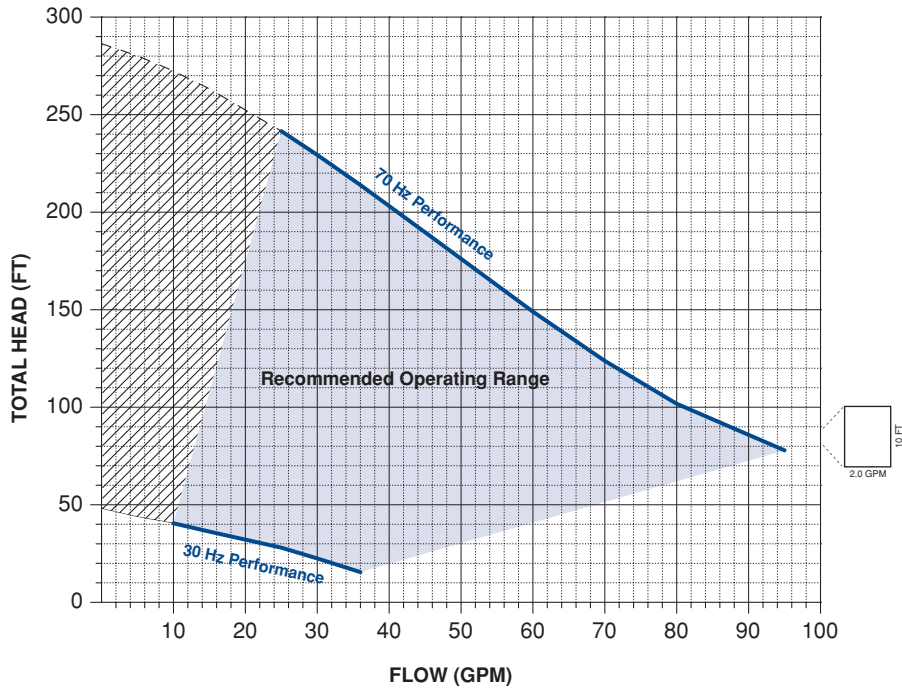


Note: Actual maximum performance of the SubDrive QuickPAK system is power limited by the SubDrive unit. This limit is based on the maximum allowable AMP load of the submersible motor. The result is in some installations an 80Hz speed may not be attained.

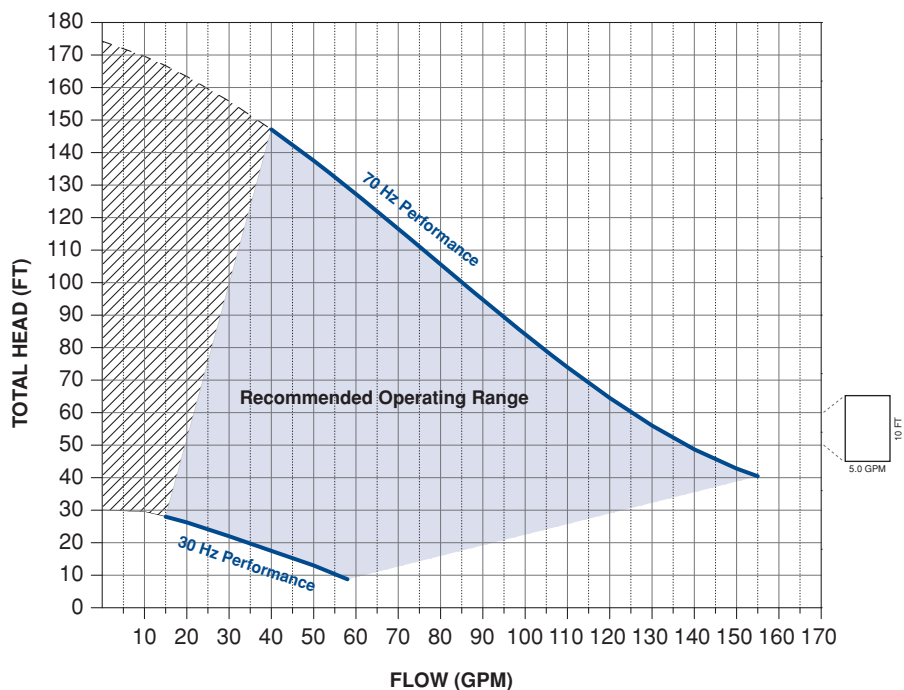
Constant Pressure Drives

SubDrive 150 Performance

60 gpm - 2.0 hp Pump End, 3.0 hp Motor

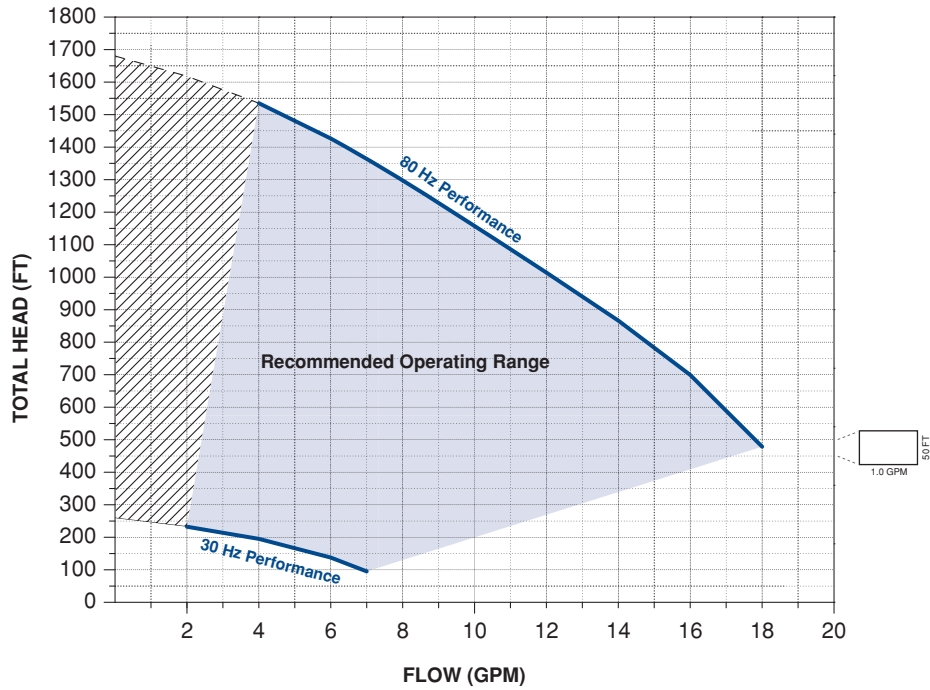


90 gpm - 2.0 hp Pump End, 3.0 hp Motor

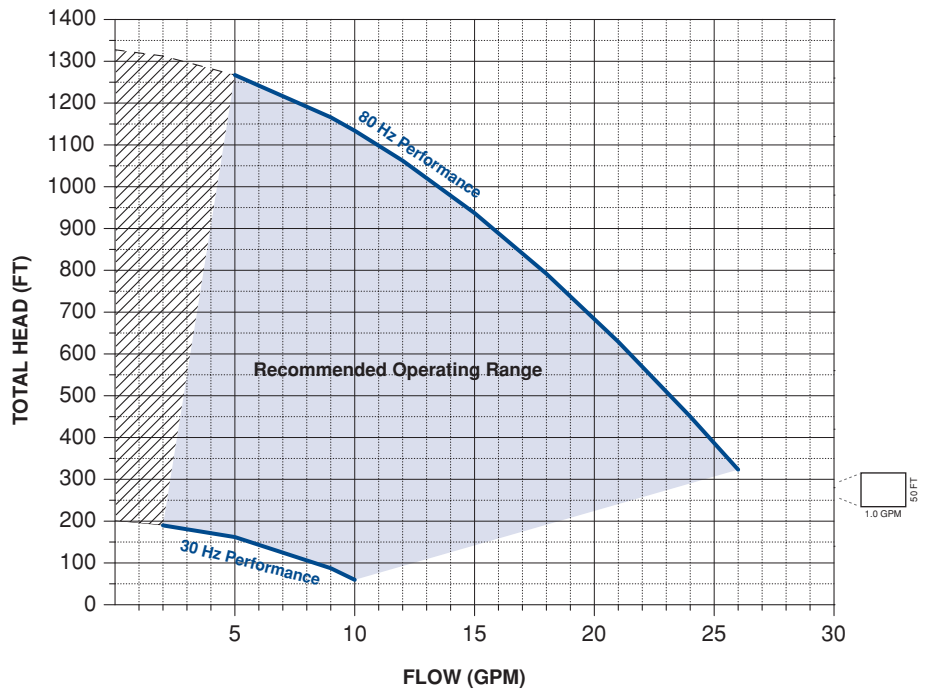


Note: Actual maximum performance of the SubDrive QuickPAK system is power limited by the SubDrive unit. This limit is based on the maximum allowable AMP load of the submersible motor. The result is in some installations an 80Hz speed may not be attained.

10 gpm - 3.0 hp Pump End, 5.0 hp Motor



15 gpm - 3.0 hp Pump End, 5.0 hp Motor

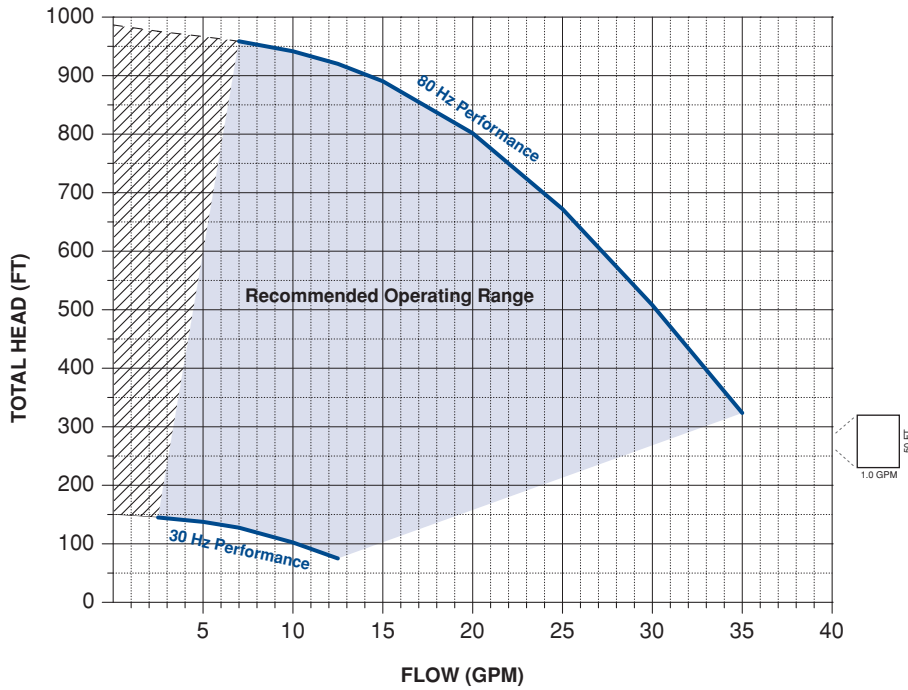


Note: Actual maximum performance of the SubDrive QuickPAK system is power limited by the SubDrive unit. This limit is based on the maximum allowable AMP load of the submersible motor. The result is in some installations an 80Hz speed may not be attained.

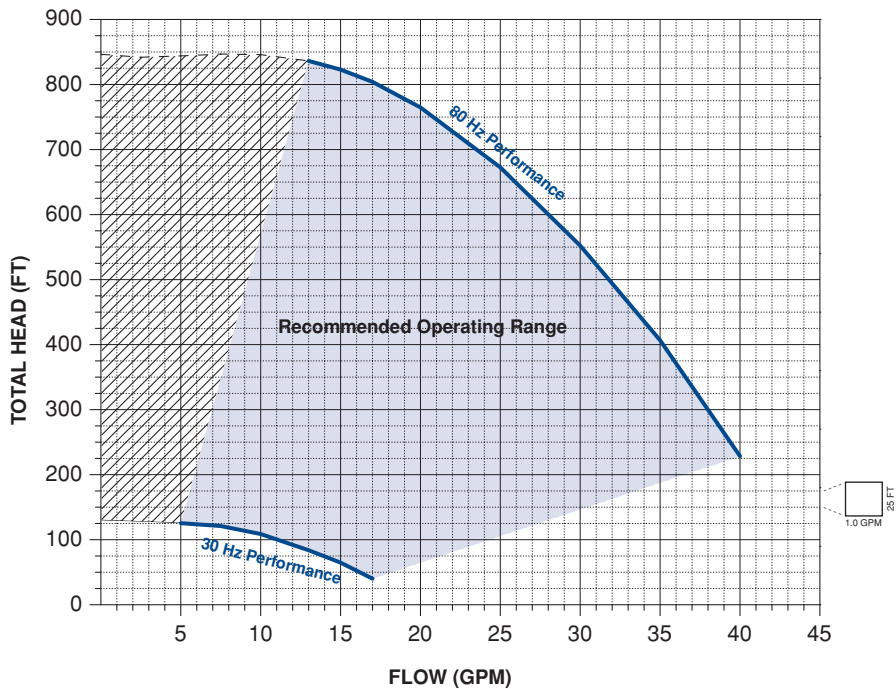
Motors, Drives, Controls & Protection

Constant Pressure Drives SubDrive300 Performance

20 gpm - 3.0 hp Pump End, 5.0 hp Motor



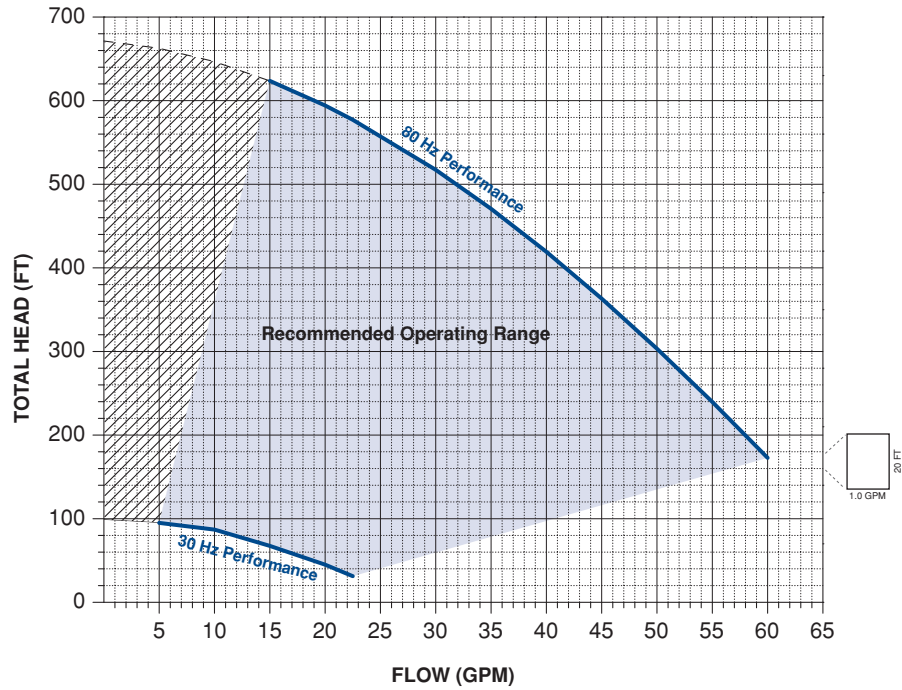
25 gpm - 3.0 hp Pump End, 5.0 hp Motor



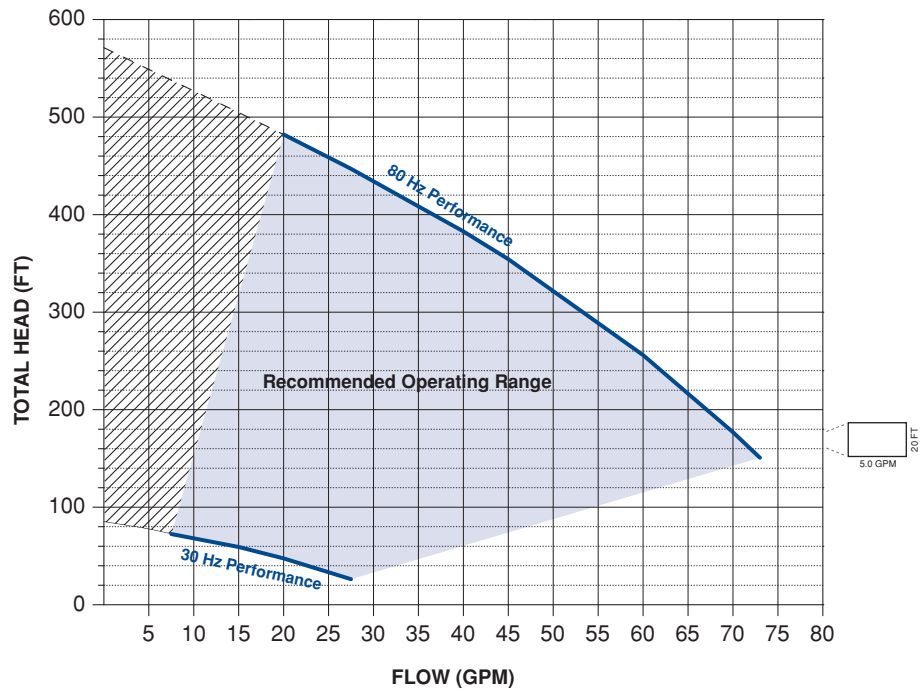
Note: Actual maximum performance of the SubDrive QuickPAK system is power limited by the SubDrive unit. This limit is based on the maximum allowable AMP load of the submersible motor. The result is in some installations an 80Hz speed may not be attained.

Constant Pressure Drives SubDrive300 Performance

35 gpm - 3.0 hp Pump End, 5.0 hp Motor



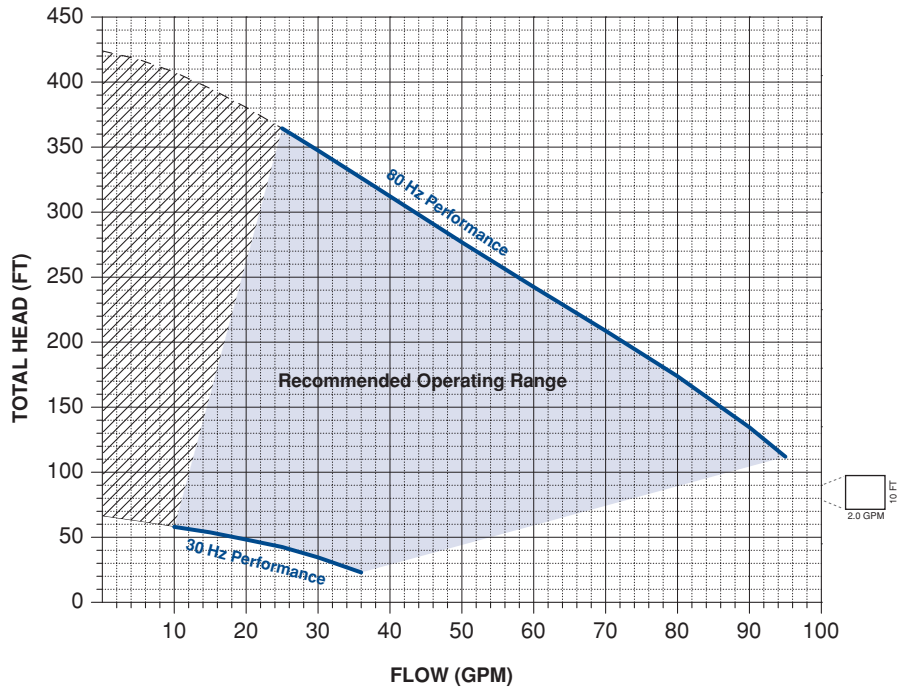
45 gpm - 3.0 hp Pump End, 5.0 hp Motor



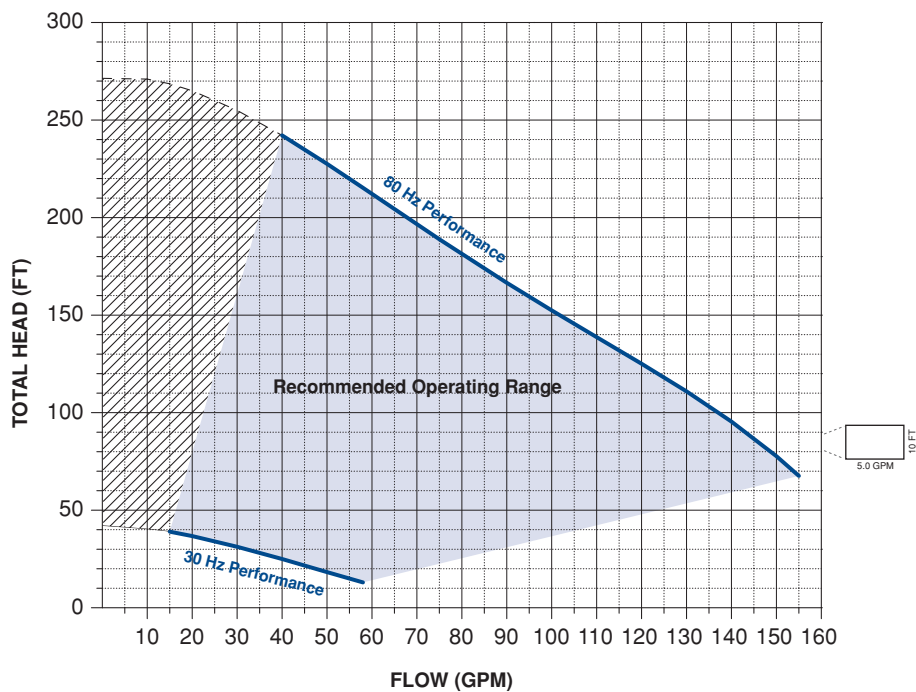
Note: Actual maximum performance of the SubDrive QuickPAK system is power limited by the SubDrive unit. This limit is based on the maximum allowable AMP load of the submersible motor. The result is in some installations an 80Hz speed may not be attained.

Constant Pressure Drives SubDrive300 Performance

60 gpm - 3.0 hp Pump End, 5.0 hp Motor



90 gpm - 3.0 hp Pump End, 5.0 hp Motor



Note: Actual maximum performance of the SubDrive QuickPAK system is power limited by the SubDrive unit. This limit is based on the maximum allowable AMP load of the submersible motor. The result is in some installations an 80Hz speed may not be attained.

Friction Loss

PVC Schedule 80 IPS Plastic Pipe in Feet per 100 feet of pipe

PIPE SIZE	1/2"		3/4"		1"		1-1/4"		1-1/2"		2"		2 1/2"		3"		4"	
	HEAD LOSS	VEL (FT./S)	HEAD LOSS	VEL (FT./S)	HEAD LOSS	VEL (FT./S)	HEAD LOSS	VEL (FT./S)	HEAD LOSS	VEL (FT./S)	HEAD LOSS	VEL (FT./S)	HEAD LOSS	VEL (FT./S)	HEAD LOSS	VEL (FT./S)	HEAD LOSS	VEL (FT./S)
1	1.87	1.37	0.42	0.74	0.12	0.45	0.03	0.25	0.01	0.18								
2	6.74	2.74	1.52	1.48	0.44	0.89	0.11	0.50	0.05	0.36	0.01	0.22						
3	14.29	4.11	3.21	2.23	0.93	1.34	0.23	0.75	0.10	0.54	0.03	0.33	0.01	0.23				
4	24.34	5.48	5.47	2.97	1.59	1.78	0.39	1.00	0.18	0.73	0.05	0.43	0.02	0.30				
5	36.79	6.85	8.27	3.71	2.40	2.23	0.59	1.25	0.27	0.91	0.08	0.54	0.03	0.38	0.01	0.24		
6	51.57	8.22	11.59	4.45	3.36	2.68	0.82	1.50	0.38	1.09	0.11	0.65	0.04	0.45	0.02	0.29		
7	68.61	9.59	15.43	5.19	4.47	3.12	1.09	1.75	0.50	1.27	0.14	0.76	0.06	0.53	0.02	0.34		
8	87.86	10.96	19.75	5.94	5.73	3.57	1.40	2.00	0.64	1.45	0.18	0.87	0.08	0.61	0.03	0.39		
9	109.27	12.33	24.57	6.68	7.12	4.01	1.74	2.25	0.80	1.63	0.23	0.98	0.01	0.68	0.03	0.44		
10	132.82	13.70	29.86	7.42	8.66	4.46	2.12	2.50	0.97	1.82	0.28	1.09	0.12	0.76	0.04	0.49		
11			35.63	8.16	10.33	4.91	2.53	2.75	1.16	2.00	0.33	1.20	0.14	0.83	0.05	0.53		
12			41.86	8.90	12.14	5.35	2.97	3.00	1.36	2.18	0.39	1.30	0.16	0.91	0.06	0.58		
14			55.69	10.39	16.15	6.24	3.95	3.50	1.81	2.54	0.52	1.52	0.22	1.06	0.07	0.68		
16			71.31	11.87	20.68	7.14	5.06	4.00	2.32	2.90	0.67	1.74	0.28	1.21	0.09	0.78		
18			88.69	13.36	25.72	8.03	6.30	4.50	2.89	3.27	0.83	1.96	0.34	1.36	0.12	0.87		
20			107.80	14.84	31.26	8.92	7.65	5.00	3.51	3.63	1.01	2.17	0.42	1.51	0.14	0.97	0.04	0.56
22					37.29	9.81	9.13	5.50	4.19	3.99	1.20	2.39	0.50	1.67	0.17	1.07	0.04	0.61
24					43.81	10.70	10.72	6.00	4.92	4.36	1.41	2.61	0.59	1.82	0.20	1.17	0.05	0.67
26					50.81	11.60	12.44	6.50	5.71	4.72	1.64	2.83	0.68	1.97	0.23	1.26	0.06	0.73
28					58.29	12.49	14.27	7.00	6.55	5.08	1.88	3.04	0.78	2.12	0.26	1.36	0.07	0.78
30					66.23	13.38	16.21	7.50	7.44	5.45	2.13	3.26	0.89	2.27	0.30	1.46	0.08	0.84
35							21.57	8.75	9.89	6.35	2.84	3.80	1.18	2.65	0.40	1.70	0.10	0.98
40							27.62	10.00	12.67	7.26	3.63	4.35	1.51	3.03	0.51	1.94	0.13	1.12
45	6" PIPE						34.36	11.25	15.76	8.17	4.52	4.89	1.88	3.41	0.64	2.19	0.17	1.26
50	0.03	0.62					41.76	12.51	19.16	9.08	5.49	5.44	2.28	3.78	0.77	2.43	0.20	1.40
55	0.03	0.68					49.82	13.76	22.85	9.99	6.55	5.98	2.72	4.16	0.92	2.67	0.24	1.53
60	0.04	0.74					58.53	15.01	26.85	10.89	7.70	6.52	3.20	4.54	1.09	2.91	0.28	1.67
65	0.04	0.80							31.14	11.80	8.93	7.07	3.71	4.92	1.26	3.16	0.33	1.81
70	0.05	0.86							35.72	12.71	10.24	7.61	4.25	5.30	1.45	3.40	0.38	1.95
75	0.06	0.92							40.59	13.62	11.64	8.15	4.83	5.68	1.64	3.64	0.43	2.09
80	0.07	0.98							45.74	14.52	13.12	8.70	5.45	6.06	1.85	3.89	0.48	2.23
85	0.07	1.05							51.18	15.43	14.68	9.24	6.09	6.43	2.07	4.13	0.54	2.37
90	0.08	1.11							56.89	16.34	16.32	9.78	6.77	6.81	2.30	4.37	0.60	2.51
95	0.09	1.17							62.88	17.25	18.03	10.33	7.49	7.19	2.54	4.61	0.66	2.65
100	0.01	1.23							69.15	18.16	19.83	10.87	8.23	7.57	2.80	4.86	0.73	2.79
125	0.15	1.54									29.98	13.59	12.45	9.46	4.23	6.07	1.01	3.49
150	0.21	1.85									42.02	16.31	17.45	11.35	5.93	7.29	1.54	4.19
175	0.28	2.15											23.21	13.25	7.89	8.50	2.05	4.88

Note: Suction Velocities should not exceed 8 feet per second. Calculated using Williams and Hazen formula using C = 150.

References

Friction Loss

Water in Feet per 100 feet of Steel Pipe

GPM	PIPE SIZE 1/2"			PIPE SIZE 3/4"			PIPE SIZE 1"			PIPE SIZE 1-1/4"			PIPE SIZE 1-1/2"		
	ACTUAL SIZE 0.622			ACTUAL SIZE 0.824			ACTUAL SIZE 1.049			ACTUAL SIZE 1.38			ACTUAL SIZE 1.61		
	FRICITION	VEL (FT/ SEC)	VEL HEAD (FT)	FRICITION	VEL (FT/ SEC)	VEL HEAD (FT)	FRICITION	VEL (FT/ SEC)	VEL HEAD (FT)	FRICITION	VEL (FT/ SEC)	VEL HEAD (FT)	FRICITION	VEL (FT/ SEC)	VEL HEAD (FT)
1	2.099	1.056	0.017	0.534	0.602	0.006	0.165	0.371	0.002	0.043	0.215	0.001	0.021	0.158	0.000
2	7.577	2.112	0.069	1.929	1.203	0.023	0.596	0.742	0.009	0.157	0.429	0.003	0.074	0.315	0.002
3	16.056	3.168	0.156	4.087	1.805	0.051	1.263	1.114	0.019	0.332	0.644	0.006	0.157	0.473	0.003
4	27.354	4.223	0.277	6.962	2.407	0.090	2.151	1.485	0.034	0.566	0.858	0.011	0.268	0.630	0.006
5	41.352	5.279	0.433	10.525	3.008	0.141	3.252	1.856	0.054	0.856	1.073	0.018	0.404	0.788	0.001
6	57.961	6.335	0.624	14.753	3.610	0.203	4.558	2.227	0.077	1.200	1.287	0.026	0.567	0.946	0.014
7	77.112	7.391	0.849	19.628	4.211	0.276	6.064	2.599	0.105	1.597	1.502	0.035	0.754	1.103	0.019
8	98.747	8.447	1.109	25.134	4.813	0.360	7.765	2.970	0.137	2.045	1.716	0.046	0.966	1.261	0.025
9	122.817	9.503	1.404	31.261	5.415	0.456	9.657	3.341	0.173	2.543	1.931	0.058	1.201	1.418	0.031
10	149.280	10.559	1.733	37.997	6.016	0.563	11.738	3.712	0.214	3.091	2.145	0.072	1.460	1.576	0.039
11	178.099	11.615	2.097	45.332	6.618	0.681	14.004	4.083	0.259	3.688	2.360	0.087	1.742	1.734	0.047
12	209.241	12.670	2.495	53.259	7.220	0.810	16.453	4.455	0.308	4.333	2.574	0.103	2.047	1.891	0.056
13	242.675	13.726	2.928	61.769	7.821	0.951	19.082	4.826	0.362	5.025	2.789	0.121	2.374	2.049	0.065
14	278.376	14.782	3.396	70.856	8.423	1.103	21.889	5.197	0.420	5.764	3.003	0.140	2.723	2.206	0.076
15	316.317	15.838	3.899	80.513	9.025	1.266	24.873	5.568	0.482	6.550	3.218	0.161	3.094	2.364	0.087
16				90.735	9.626	1.440	28.031	5.940	0.548	7.381	3.432	0.183	3.487	2.521	0.099
17				101.517	10.228	1.626	31.362	6.311	0.619	8.258	3.647	0.207	3.901	2.679	0.112
18				112.852	10.829	1.823	34.863	6.682	0.694	9.181	3.861	0.232	4.337	2.837	0.125
19				124.738	11.431	2.031	38.535	7.053	0.773	10.148	4.076	0.258	4.793	2.994	0.139
20				137.168	12.033	2.250	42.375	7.425	0.857	11.159	4.290	0.286	5.271	3.152	0.154
21				150.140	12.634	2.481	46.383	7.796	0.945	12.214	4.505	0.315	5.769	3.309	0.170
22				163.649	13.236	2.723	50.556	8.167	1.037	13.313	4.719	0.346	6.288	3.467	0.187
23				177.691	13.838	2.976	54.894	8.538	1.133	14.455	4.934	0.378	6.828	3.625	0.204
24				192.263	14.439	3.241	59.396	8.909	1.234	15.641	5.148	0.412	7.388	3.782	0.222
25				207.363	15.041	3.516	64.061	9.281	1.339	16.869	5.363	0.447	7.968	3.940	0.241
26				222.985	15.643	3.803	68.887	9.652	1.448	18.140	5.577	0.483	8.569	4.097	0.261
27				239.128	16.244	4.101	73.874	10.023	1.561	19.453	5.792	0.521	9.189	4.255	0.281
28				255.789	16.846	4.411	79.021	10.394	1.679	20.809	6.006	0.561	9.829	4.413	0.303
29				272.965	17.448	4.731	84.327	10.766	1.801	22.206	6.221	0.601	10.489	4.570	0.325
30				290.652	18.049	5.063	89.791	11.137	1.928	23.645	6.435	0.644	11.169	4.728	0.347
32							101.191	11.879	2.193	26.647	6.864	0.732	12.587	5.043	0.395
34							113.215	12.622	2.476	29.813	7.293	0.827	14.082	5.358	0.446
36							125.857	13.364	2.776	33.142	7.722	0.927	15.655	5.673	0.500
38							139.112	14.107	3.093	36.633	8.151	1.033	17.304	5.989	0.557
40							152.975	14.849	3.427	40.283	8.580	1.144	19.028	6.304	0.618
42							167.442	15.592	3.778	44.093	9.009	1.261	20.827	6.619	0.681
44							182.507	16.334	4.147	48.060	9.438	1.384	22.701	6.934	0.747
46							198.168	17.076	4.532	52.184	9.867	1.513	24.649	7.249	0.817
48							214.420	17.819	4.935	56.463	10.296	1.648	26.671	7.564	0.889
50							231.259	18.561	5.355	60.898	10.725	1.788	28.765	7.880	0.965
55							275.904	20.417	6.479	72.654	11.798	2.163	34.319	8.668	1.168
60							324.147	22.274	7.711	85.358	12.870	2.574	40.319	9.456	1.390
65							375.943	24.130	9.049	98.997	13.943	3.021	46.762	10.244	1.631
70							431.249	25.986	10.495	113.561	15.015	3.504	53.641	11.032	1.891
75							490.027	27.842	12.048	129.039	16.088	4.023	60.952	11.820	2.171
80							552.241	29.698	13.708	145.422	17.160	4.577	68.691	12.607	2.470
85							617.860	31.554	15.475	162.701	18.233	5.167	76.853	13.395	2.789
90							686.852	33.410	17.349	180.869	19.305	5.793	85.435	14.183	3.127
95							759.190	35.267	19.331	199.918	20.378	6.454	94.433	14.971	3.484
100							834.846	37.123	21.419	219.840	21.450	7.151	103.843	15.759	3.860
110										262.281	23.595	8.653	123.890	17.335	4.671
120										308.142	25.740	10.298	145.553	18.911	5.559
130										357.380	27.885	12.086	168.811	20.487	6.524
140										409.955	30.030	14.016	193.645	22.063	7.566
150										465.831	32.175	16.090	220.039	23.639	8.685

Note: Suction Velocities should not exceed 8 feet per second.

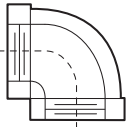
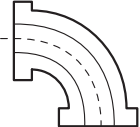

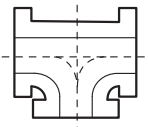

Friction Loss Water in Feet per 100 feet of Steel Pipe

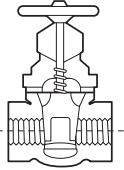
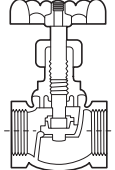
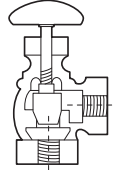
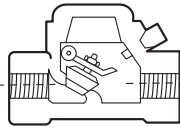
GPM	PIPE SIZE 2"			PIPE SIZE 2-1/2"			PIPE SIZE 3"			PIPE SIZE 3-1/2"		
	ACTUAL SIZE 2.067			ACTUAL SIZE 2.469			ACTUAL SIZE 3.068			ACTUAL SIZE 3.548		
	FRICITION	VEL (FT/SEC)	VEL HEAD (FT)	FRICITION	VEL (FT/SEC)	VEL HEAD (FT)	FRICITION	VEL (FT/SEC)	VEL HEAD (FT)	FRICITION	VEL (FT/SEC)	VEL HEAD (FT)
2	0.022	0.191	0.001									
3	0.047	0.287	0.001	0.020	0.201	0.001						
4	0.079	0.383	0.002	0.033	0.268	0.001						
5	0.120	0.478	0.004	0.051	0.335	0.002	0.018	0.217	0.001	0.009	0.162	0.000
6	0.168	0.574	0.005	0.071	0.402	0.003	0.025	0.260	0.001	0.012	0.195	0.001
7	0.224	0.670	0.007	0.094	0.469	0.003	0.033	0.304	0.001	0.016	0.227	0.001
8	0.286	0.765	0.009	0.121	0.536	0.004	0.042	0.347	0.002	0.021	0.260	0.001
9	0.356	0.861	0.012	0.150	0.603	0.006	0.052	0.391	0.002	0.026	0.292	0.001
10	0.433	0.957	0.014	0.182	0.670	0.007	0.063	0.434	0.003	0.031	0.325	0.002
11	0.516	1.052	0.017	0.218	0.737	0.008	0.076	0.477	0.004	0.037	0.357	0.002
12	0.607	1.148	0.020	0.256	0.804	0.010	0.089	0.521	0.004	0.044	0.389	0.002
13	0.704	1.244	0.024	0.296	0.871	0.012	0.103	0.564	0.005	0.051	0.422	0.003
14	0.807	1.339	0.028	0.340	0.938	0.014	0.118	0.608	0.006	0.058	0.454	0.003
15	0.917	1.435	0.032	0.386	1.005	0.016	0.134	0.651	0.007	0.066	0.487	0.004
16	1.034	1.531	0.036	0.435	1.072	0.018	0.151	0.694	0.007	0.075	0.519	0.004
17	1.157	1.626	0.041	0.487	1.139	0.020	0.169	0.738	0.008	0.083	0.552	0.005
18	1.286	1.722	0.046	0.542	1.206	0.023	0.188	0.781	0.009	0.093	0.584	0.005
19	1.421	1.818	0.051	0.599	1.273	0.025	0.208	0.825	0.011	0.103	0.617	0.006
20	1.563	1.913	0.057	0.658	1.340	0.028	0.229	0.868	0.012	0.113	0.649	0.007
21	1.711	2.009	0.063	0.720	1.407	0.031	0.250	0.911	0.013	0.123	0.681	0.007
22	1.865	2.105	0.069	0.785	1.474	0.034	0.273	0.955	0.014	0.135	0.714	0.008
23	2.025	2.200	0.075	0.853	1.541	0.037	0.296	0.998	0.015	0.146	0.746	0.009
24	2.191	2.296	0.082	0.923	1.608	0.040	0.321	1.042	0.017	0.158	0.779	0.009
25	2.363	2.391	0.089	0.995	1.675	0.044	0.346	1.085	0.018	0.171	0.811	0.010
26	2.541	2.487	0.096	1.070	1.742	0.047	0.372	1.128	0.020	0.183	0.844	0.011
27	2.724	2.583	0.104	1.148	1.809	0.051	0.399	1.172	0.021	0.197	0.876	0.012
28	2.914	2.678	0.112	1.227	1.876	0.055	0.427	1.215	0.023	0.210	0.909	0.013
29	3.110	2.774	0.120	1.310	1.943	0.059	0.455	1.259	0.025	0.224	0.941	0.014
30	3.312	2.870	0.128	1.395	2.010	0.063	0.485	1.302	0.026	0.239	0.974	0.015
32	3.732	3.061	0.146	1.572	2.144	0.071	0.546	1.389	0.030	0.269	1.038	0.017
34	4.175	3.252	0.164	1.759	2.278	0.081	0.611	1.476	0.034	0.301	1.103	0.019
36	4.642	3.444	0.184	1.955	2.412	0.090	0.679	1.562	0.038	0.335	1.168	0.021
38	5.130	3.635	0.205	2.161	2.546	0.101	0.751	1.649	0.042	0.370	1.233	0.024
40	5.642	3.826	0.228	2.376	2.680	0.112	0.826	1.736	0.047	0.407	1.298	0.026
42	6.175	4.018	0.251	2.601	2.814	0.123	0.904	1.823	0.052	0.446	1.363	0.029
44	6.731	4.209	0.275	2.835	2.948	0.135	0.985	1.910	0.057	0.486	1.428	0.032
46	7.308	4.400	0.301	3.078	3.083	0.148	1.070	1.996	0.062	0.527	1.493	0.035
48	7.908	4.592	0.328	3.331	3.217	0.161	1.158	2.083	0.067	0.571	1.558	0.038
50	8.529	4.783	0.356	3.592	3.351	0.174	1.248	2.170	0.073	0.616	1.623	0.041
55	10.175	5.261	0.430	4.286	3.686	0.211	1.490	2.387	0.089	0.734	1.785	0.050
60	11.955	5.740	0.512	5.035	4.021	0.251	1.750	2.604	0.105	0.863	1.947	0.059
65	13.865	6.218	0.601	5.840	4.356	0.295	2.030	2.821	0.124	1.001	2.109	0.069
70	15.905	6.696	0.697	6.699	4.691	0.342	2.328	3.038	0.143	1.148	2.272	0.080
75	18.072	7.174	0.800	7.612	5.026	0.393	2.646	3.255	0.165	1.304	2.434	0.092
80	20.367	7.653	0.910	8.578	5.361	0.447	2.981	3.472	0.187	1.470	2.596	0.105
85	22.787	8.131	1.028	9.598	5.696	0.504	3.336	3.689	0.212	1.644	2.758	0.118
90	25.331	8.609	1.152	10.669	6.031	0.565	3.708	3.906	0.237	1.828	2.921	0.133
95	27.999	9.088	1.284	11.793	6.366	0.630	4.099	4.123	0.264	2.021	3.083	0.148
100	30.789	9.566	1.422	12.968	6.701	0.698	4.507	4.340	0.293	2.222	3.245	0.164
110	36.733	10.523	1.721	15.472	7.371	0.845	5.377	4.774	0.354	2.651	3.570	0.198
120	43.156	11.479	2.048	18.177	8.041	1.005	6.317	5.208	0.422	3.114	3.894	0.236
130	50.052	12.436	2.404	21.081	8.711	1.180	7.327	5.642	0.495	3.612	4.219	0.277
140	57.416	13.392	2.788	24.183	9.382	1.368	8.405	6.076	0.574	4.144	4.543	0.321
150	65.241	14.349	3.200	27.479	10.052	1.570	9.550	6.510	0.659	4.708	4.868	0.368

Note: Suction Velocities should not exceed 8 feet per second.

References

Pipe Fittings

FRICTION LOSSES IN TERMS OF EQUIVALENT LENGTHS OF STANDARD PIPE					
PIPE SIZE	STANDARD 90° ELBOW	LONG RADIUS ELBOW	45° ELBOW	TEE	RETURN BEND
					
1/2"	1.5	1.1	0.77	3.4	3.8
3/4"	2.2	1.4	1	4.5	5
1"	2.7	1.7	1.3	5.8	6.1
1.25"	3.7	2.4	1.6	7.8	8.5
1.5"	4.3	2.8	2	9	10
2"	5.5	3.5	2.5	11	13
2.5"	6.5	4.2	3	14	15
3"	8.1	5.1	3.8	17	18
3.5"	9.5	6	4.4	19	21
4"	11	7	5	22	24
4.5"	12	7.9	5.6	24	27
5"	14	8.9	6.1	27	31
6"	16	11	7.7	33	37

FRICTION LOSSES IN TERMS OF EQUIVALENT LENGTHS OF STANDARD PIPE				
PIPE SIZE	GATE VALVE OPEN	GLOBE VALVE OPEN	ANGLE VALVE OPEN	SWING CHECK VALVE
				
1/2"	0.35	16	8.4	4
3/4"	0.47	22	12	5
1"	0.6	27	15	7
1.25"	0.8	37	18	9
1.5"	0.95	44	22	11
2"	1.2	57	28	13
2.5"	1.4	66	33	16
3"	1.7	85	42	20
3.5"	2	99	50	
4"	2.3	110	58	26
4.5"	2.6	130	61	
5"	2.9	140	70	33
6"	3.5	160	83	39

Pressure Loss

Swing Check Valves

FLOW GPM	PRESSURE LOSS (PSI)					
	VALVE SIZE					
	1/2"	3/4"	1"	1.25"	1.5"	2"
2	0.2					
3	0.5					
6	1.0	0.3				
8	1.7	0.5				
10	2.6	0.8	0.3			
12	3.6	1.1	0.5			
14	4.8	1.5	0.6			
16		2.0	0.9			
18		2.4	1.0			
20		3.0	1.2	0.4		
22		3.5	1.4	0.5		
24		4.1	1.7	0.6		
26		4.8	2.0	0.7	0.4	
28			2.2	0.8	0.5	
30			2.5	0.9	0.5	
32			2.9	1.1	0.6	
34			3.2	1.2	0.6	
36			3.6	1.3	0.7	
38			3.9	1.5	0.8	
40			4.3	1.6	0.8	0.3
42			4.7	1.7	0.9	0.3
44				1.9	1.0	0.4

FLOW GPM	PRESSURE LOSS (PSI)					
	VALVE SIZE					
	1.25"	1.5"	2"	2.5"	3"	4"
46	2.1	1.1	0.4			
48	2.2	1.2	0.5			
50	2.4	1.3	0.5			
55	2.9	1.5	0.6			
60	3.4	1.8	0.7			
65	3.9	2.0	0.8			
70	4.5	2.4	0.9	0.4		
75		2.7	1.0	0.5		
80		3.0	1.2	0.6		
90		3.7	1.5	0.7		
100		4.6	1.8	0.9	0.4	
120			2.5	1.2	0.5	
140			3.3	1.6	0.7	

Bronze Gate Valves

FLOW GPM	PRESSURE LOSS (PSI)								
	VALVE SIZE								
	1/2"	3/4"	1"	1.25"	1.5"	2"	2.5"	3"	4"
1									
2	.01								
5	.06	.02							
8	.16	.05	.02						
10	.24	.08	.03	.01					
15		.17	.06	.02	.01				
20		.31	.11	.03	.02				
30			.24	.07	.04	.01			
40			.43	.13	.07	.02	.01		
50			.67	.21	.11	.04	.02		
60				.30	.15	.05	.03	.01	
80				.54	.28	.10	.05	.02	
100					.43	.15	.07	.03	
120					.62	.22	.10	.04	.02
140					.85	.30	.14	.06	
160						.40	.18	.07	.03

References

Pressure Loss

Water Meters - AWWA Standard

FLOW GPM	PRESSURE LOSS						
	NORMAL SIZE						
	5/8"	3/4"	1"	1.5"	2"	3"	4"
1	0.2	0.1					
2	0.3	0.2					
3	0.4	0.3					
4	0.6	0.5	0.1				
5	0.9	0.6	0.2				
6	1.3	0.7	0.3				
7	1.8	0.8	0.4				
8	2.3	1.0	0.5				
9	3.0	1.3	0.6				
10	3.7	1.6	0.7				
11	4.4	1.9	0.8				
12	5.1	2.2	0.9				
13	6.1	2.6	1.0				
14	7.2	3.1	1.1				
15	8.3	3.6	1.2				
16	9.4	4.1	1.4	0.4			
17	10.7	4.6	1.6	0.5			
18	12.0	5.2	1.8	0.6			
19	13.4	5.8	2.0	0.7			
20	15.0	6.5	2.2	0.8			
22		7.9	2.8	1.0			
24		9.5	3.4	1.2			
26		11.2	4.0	1.4			
28		13.0	4.6	1.6			
30		15.0	5.3	1.8	0.7		
32			6.0	2.1	0.8		
34			6.9	2.4	0.9		
36			7.8	2.7	1.0		
38			8.7	3.0	1.2		
40			9.6	3.3	1.3		
42			10.6	3.6	1.4		
44			11.7	3.9	1.5		
46			12.8	4.2	1.6		
48			13.9	4.5	1.7		
50			15.0	4.9	1.9		
52				5.3	2.1		
54				5.7	2.2		
56				6.2	2.3		
58				6.7	2.5		
60				7.2	2.7	1.0	
65				8.3	3.2	1.1	
70				9.8	3.7	1.3	
75				11.3	4.3	1.5	
80				12.8	4.9	1.6	0.7
90				16.1	6.2	2.0	0.8
100				20.0	7.8	2.5	0.9
110					9.5	2.9	1.0
120					11.3	3.4	1.2
130					13.0	3.9	1.4
140					15.1	4.5	1.6
150					17.3	5.1	1.8

Pressure Tank Sizing

Pressure Tank Selection Chart - Minimum tank volumes for proper system life

PUMP CAPACITY		MINIMUM DRAWDOWN GALLONS	TOTAL TANK VOLUME (GALLONS)								
			SWITCH SETTING (PSI)								
			20-40			30-50			40-60		
GPH	GPM		A	B	C	A	B	C	A	B	C
240	4	4	10	15	25	15	15	40	15	15	55
300	5	5	15	15	30	15	20	50	20	20	70
360	6	6	15	20	40	20	20	60	20	25	85
420	7	7	20	20	45	35	25	70	25	30	100
480	8	8	20	25	50	35	25	80	30	30	110
540	9	9	25	25	60	30	30	90	35	35	125
600	10	10	30	30	65	30	35	100	40	40	140
660	11	12	35	35	80	40	40	120	45	45	165
720	12	13	35	40	85	40	45	130	50	50	180
780	13	15	40	45	100	50	50	150	55	60	210
840	14	17	45	50	110	55	55	170	65	65	235
900	15	19	50	55	125	60	65	190	70	75	265
960	16	20	55	55	160	65	65	200	75	75	280
1020	17	23	6	65	150	75	75	230	85	90	320
1080	18	25	70	70	160	80	85	250	95	95	350
1140	19	27	75	75	175	85	90	270	100	105	375
1200	20	30	80	85	195	95	100	300	110	115	415
1260	21	33	90	90	215	105	110	330	125	125	460
1320	22	36	100	100	235	115	120	360	135	135	500
1380	23	38	105	105	345	125	125	380	140	145	530
1440	24	41	110	115	365	135	135	410	155	155	570
1500	25	44	120	120	385	140	145	440	165	165	610
1560	26	47	130	130	305	150	155	470	175	180	655
1620	27	50	135	140	325	160	165	500	185	190	700
1680	28	53	145	145	345	170	175	530	200	200	735
1740	29	57	155	160	370	185	185	570	215	215	790
1800	30	60	165	165	390	195	195	600	225	225	835

Note: A - Bladder or Diaphragm Tank Design
 B - Floating Water Tank Design
 C - Plain Steel Tank Design

References

Reference Tables

Equivalent Values of Pressure

INCHES OF MERCURY	FEET OF WATER	PSI
1	1.13	0.49
2	2.26	0.98
3	3.39	1.47
4	4.52	1.95
5	5.65	2.44
6	6.78	2.93
7	7.91	3.42
8	9.04	3.91
9	10.17	4.4
10	11.3	4.89
11	12.45	5.39
12	13.57	5.87
13	14.7	6.37
14	15.82	6.86
15	16.96	7.35
16	18.09	7.84
17	19.22	8.33
18	20.35	8.82
19	21.75	9.31
20	22.6	9.8
21	23.78	10.3
22	24.88	10.8
23	26	11.28
24	27.15	11.75
25	26.26	12.25
26	29.4	12.73
27	30.52	13.23
28	31.65	13.73
29	32.8	14.22
29.929	33.947	14.697

Properties of Water

TEMP. OF WATER (°F)	PRESSURE (FT WATER)
60	0.59
70	0.84
80	1.17
90	1.61
100	2.19
110	2.94
120	3.91
130	5.14
140	6.67
150	8.58
160	10.9
170	13.8
180	17.3
190	21.6
200	26.6
210	32.6
212	34

Atmospheric Pressure at Various Elevations

ALTITUDE FEET ABOVE SEA LEVEL	ATMOSPHERIC PRESSURE		
	POUNDS PER SQUARE INCH (PSI)	FEET OF WATER	INCHES OF MERCURY
Sea Level	14.7	33.8	29.9
500	14.4	33.3	29.4
1000	14.2	32.6	28.8
2000	13.7	31.4	27.8
3000	13.2	30.3	26.8
4000	12.7	29.2	25.8
5000	12.2	28.2	24.9
6000	11.8	27.1	24
7000	11.3	26.1	23.1
8000	10.9	25.1	22.2
9000	10.5	24.2	21.4
10000	10.1	23.2	20.6

Conversions

HEAD		
TO CONVERT FROM	TO	MULTIPLY BY
PSI	Feet	2.31
PSI	Inches of Mercury	2.04
Feet	PSI	0.433
Feet	Meters	0.305
Feet	Inches of Mercury	0.885
Inches of Mercury	Feet of Water	1.132
Meters	Feet	3.28
Kilograms per sq. in.	PSI	14.22
ATM	PSI	14.7
ATM	Feet of Water	34
ATM	Meters of Water	10.35

VOLUME		
TO CONVERT FROM	TO	MULTIPLY BY
Gallons	Liters	3.785
Gallons	Cubic Inches	231
Gallons	Cubic Feet	0.137
Gallons	Cubic Meters	0.004
Liters	Gallons	0.264
Barrel (Oil)	Gallons	42
Cubic Feet	Gallons	7.48
Cubic Feet	Cubic Meters	0.028
Acre Foot	Cubic Feet	43560
Acre Foot	Gallons	325829
Acre Inch	Cubic Feet	3630
Acre Inch	Gallons	27100

CAPACITY		
TO CONVERT FROM	TO	MULTIPLY BY
Gallons Per Minute	Liters/Sec.	0.063
Gallons Per Minute	Liters/Hr.	227.1
Gallons Per Minute	Cubic Meters/Hr.	0.227
Gallons Per Minute	Cubic Feet/Sec.	0.002
Gallons Per Minute	Pounds Per Hour	500
Cubic Meters/Hr.	Gallons Per Minute	4.402
Cubic Meters/Hr.	Liters/Sec.	0.278
Cubic Feet/Sec.	Gallons Per Minute	448.831
Acre Foot	Gallons	325.85
Acre Foot per Day	Gallons Per Minute	227
Acre Inch per Hour	Gallons Per Minute	454
Litre per Second	Gallons Per Minute	15.85
Miner's Inch (ID,KS,NE, NM,ND,SD,UT,WA)	Gallons Per Minute	9
Miner's Inch (AZ,CA,MT,NV,OR)	Gallons Per Minute	11.22

HORSEPOWER		
TO CONVERT FROM	TO	MULTIPLY BY
H.P.	Kilowatts	0.746
H.P.	Ft. lbs. per minute	33000
H.P.	Ft. lbs. per second	550
Kilowatts	H.P.	1.341

LENGTH		
TO CONVERT FROM	TO	MULTIPLY BY
Inches	Centimeters	2.54
Meters	Feet	3.28
Miles	Feet	5280
Rods	Feet	16.5

WEIGHT		
TO CONVERT FROM	TO	MULTIPLY BY
Gallons	Pounds	8.33
Cubic Feet of Water	Pounds	62.35
Kilograms	Pounds	2.2

TEMPERATURE		
TO CONVERT FROM	TO	MULTIPLY BY
Fahrenheit	Celsius	$5/9 \times (^{\circ}\text{F} - 32)$
Celsius	Fahrenheit	$9/5 \times (^{\circ}\text{C} + 32)$

1,000,000 US gal. / day = 695 US gal. / minute

Warranty Information

Lost or Damaged Goods

IMPORTANT:

Every carrier used by Franklin Electric Co., Inc. is required to verify and sign for the condition of and the number of pieces that are released to them for delivery. Our control and responsibility for any shipment ceases when the carrier signs the Bill of Lading. When you sign the Bill of Lading, you legally assume responsibility of the shipment being delivered. Please, thoroughly inspect each shipment immediately upon arrival.

If cartons, packages, or crates are received in short or damaged condition, it is important that you notify the driver and insist on a notation of the loss or damage across the face of the freight bill. Failure to do this could negate any opportunity you have to file a claim. Claims for short or damaged material must be filed in writing with the carrier immediately after delivery.

If concealed loss or damage is discovered, notify the carrier at once and request an inspection. It is also important that you do not discard the shipping carton or container. A concealed damage report should be made within ten (10) days of delivery of the shipment. The carrier's agent will make an inspection and usually will grant a concealed damage notation. If you give the carrier a clear receipt for the goods that have been damaged in transit, you do so at your own risk and expense.

We are willing to assist you to collect claims for loss or damage, but we are not responsible for collection of claims or replacement of material (shortage or damage) if not noted on the Bill of Lading at the time of delivery.

Due to frequent damage of heavy UPS shipments, Franklin Electric Co., Inc. does not ship orders over 75 lbs. by UPS unless customer agrees to take full responsibility.

For information or assistance contact:



**5128 Flag Drive Gallows Bay
Christiansted St. Croix 00824
340.778.3156**

Limited Warranty

U.S. LIMITED WARRANTY* Franklin Electric Co., Inc.

Franklin Electric Co., Inc. warrants its new products to be free of defects in material and workmanship for a period of 1 year from date of installation or 2 years from date of manufacture, whichever comes first, WHEN installed in clean, potable water applications. Warranty does not cover applications pumping saltwater or other corrosive liquids. Consult and adhere to local codes for all applications. Franklin Electric Co., Inc. also provides additional warranty coverage on specific products as specified herein.

Franklin Electric's warranty obligation with regard to equipment not of its own manufacture is limited to the warranty actually extended to Franklin Electric by its suppliers.

This warranty extends only to the original retail purchaser and only during the time in which the original retail purchaser occupies the site where the product was originally installed.

Requests for service under this warranty shall be made by contacting the installing Franklin Electric dealer (point of purchase) as soon as possible after the discovery of any alleged defect. Franklin Electric will subsequently take corrective action as promptly as reasonably possible.

Franklin Electric, at its discretion, may replace or repair any product that fails under this warranty after inspection by an authorized company representative or after Franklin Electric has received the product at our factory. Replacement or repair cannot be made until after the product is inspected. All charges or expenses for freight to and from the factory, removal and reinstallation of the product, or installation of a replacement product are the responsibility of the purchaser.

THIS WARRANTY SUPERSEDES ANY WARRANTY NOT DATED OR BEARING AN EARLIER DATE. ANY IMPLIED WARRANTIES WHICH THE PURCHASER MAY HAVE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL NOT EXTEND BEYOND THE APPLICABLE WARRANTY PERIOD. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. IN NO EVENT SHALL FRANKLIN ELECTRIC BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above may not apply to you.

This warranty does not apply to any product which has been subjected to negligence, alteration, accident, abuse, misuse, improper installation, vandalism, civil disturbances, or acts of God. The only warranties authorized by Franklin Electric are those set forth herein. Franklin Electric does not authorize other persons to extend any warranties with respect to its products, nor will Franklin Electric assume liability for any unauthorized warranties made in connection with the sale of its products.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE.

* Contact Franklin Electric Co., Inc. Export Division for International Warranty.



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